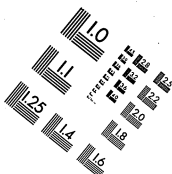
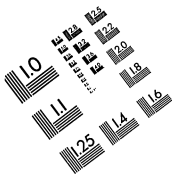




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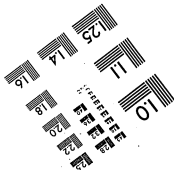
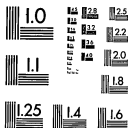
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Centimeter



Inches



# Thomas A Edison Papers

*A SELECTIVE MICROFILM EDITION*

*PART II  
(1879-1886)*

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Frederick, Maryland  
1987

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**Thomas A. Edison Papers**  
at  
**Rutgers, The State University**  
endorsed by  
**National Historical Publications and Records Commission**  
18 June 1981

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**START**

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THOMAS A. EDISON PAPERS  
A SELECTIVE MICROFILM EDITION  
PART II  
(1879-1886)

REEL 67

DOCUMENT FILE SERIES (DOC-27)

D-83-031 through D-83-037  
("Electric Light - Edison Electric Light Company of Europe, Ltd."  
through "Electric Light - Foreign - Europe")

**1883. Electric Light - Edison Electric Light Company of Europe, Ltd. (D-83-031)**

This folder contains correspondence, reports, lists of stockholders, and other documents relating to the business of the Edison Electric Light Company of Europe, Ltd. Many of the documents concern the proposed formation of a general European light company to supersede existing companies. Related material can be found in D-83-037 (Electric Light - Foreign - Europe) and in the Primary Printed Collection (Company Records Series).

Approximately 70 percent of the documents have been filmed. The following categories of documents have not been filmed: routine company correspondence, such as letters relating to the shipment of goods; bills and receipts; bond coupons; bills of lading; duplicate copies of selected documents.



*The Edison Electric Light Company  
of Europe Limited*

1883-01-03

*65 Fifth Avenue, New York* January 3rd, 1883

Dear Sir:-

A special meeting of the Directors of the Edison Electric Light Company of Europe, Limited, will be held at the office of Messrs. R. L. Cutting Jr & Co., No. 19 William Street, New York City, on Friday, January 5th, 1883, at 1 o'clock P. M.

Yours truly,



---

Second Vice President.

1883-01-06

Mr. Edison,

I have prepared a written statement of the present condition of the founders shares. I submitted it to the meeting of the European company yesterday, and had it incorporated in the minutes. The matter is so complicated, that if anything should happen to me a new man might not understand it, so I have written the whole story out. I enclose you a copy which you may be interested in reading. It is rather long but it could not be made much shorter.

The decision of the Directors of the European Company was to have all the founders shares brought over here, to tie them up in a Trust company in this city for 10 years, and to execute any reasonable agreement which the European company might require to that end. Also to do this no matter whether the remaining founders shares were tied up or not. Our Directors thought it was not worth while to ask Puskas & Bailey to tie up theirs, also Leon and others.

S. B. Eaton

Jan. 6th, 1883.

per Mc.G.

Statement prepared by S. R. Eaton, Second Vice President, regarding the transfer of the company's founders shares from Paris to New York City, and submitted to the Directors of the EuroDean Co. at a meeting held January 5th. 1883.

FIRST. We have founders shares in three different companies, and directions have been heretofore given, as prescribed by the Board, for having all these founders shares sent to the office of the company in New York City. I have exchanged letters and cablegrams with Mr. Bailey and Mr. Batchelor, since Mr. Bailey's return to Paris, insisting that the founders shares in all these three companies should be at once sent here.

In reply to my request as above, a question has been raised touching a clause in the statutes of the Company Continentale. This question I will state at length below.

It relates to a certain portion of the parts of founder in the Company Continentale, namely, 20 per centum thereof. As soon as this question was raised, and it was claimed that this 20 per centum of the said founders shares in that Company could not, with safety to our interests, be forwarded to us, I requested Mr. Bailey to at once send the balance of the founders including those in all three of the Companies. That has not been done, and I judge from a cable from Mr. Bailey, received yesterday, that a new question has arisen, which must also be settled before any of the founders will be sent here. This also will be referred to below.

Mr. Bailey states in his letter to me of December 20th., that Mr. Batchelor completed the preparation of the various receipts on December 19th., and that the delay still arising, touching the sending of the foundersshares to this city, relating only to the question of the 20 per centum. But in a letter from Mr. Bailey, dated December 23rd., just received, he renews a suggestion which he has frequently made before, and which he discussed with our Directors when he was here during the Summer, that all the points of founder, including the 20 per centum, should be deposited in a Trust Company, with an agreement, on the part of our Co., to hold them thus in deposit during the existence of the Compagnie Continentale. He does not state whether he thinks that Trust Co. should be a company on this side of the water, or in Paris. Possibly, I think, a Trust Co. in this city would answer as well as one in Paris. In that same letter Mr. Bailey states that the Directors of his Company were to meet that very afternoon to act upon my telegram of December 20th., insisting that the founders shares be sent here at once, even if Mr. Bailey thought it best to retain 20 per centum of the same in Paris; that at least the rest of them, aside from said 20 P.C. should be at once sent here.

Mr. Bailey still further states in his letter of December 23rd. that if the founders shares are sent here it will probably be necessary that, as a preliminary, a transfer should be made to the Company Continentale of the foundation Edison patents. Just what is meant by this I do not understand. All the patents

have been already assigned to his Company, and I therefore do not understand what is meant. Yesterday I received a cable from Mr. Railey as follows: "Company considers transfer of patents necessary. Am hastening all possible. Have written." I conclude from this cable that the transfer of patents which Mr. Railey refers to in his letter of December 23rd., and which I have just mentioned, is a condition the Company Continentale seems to impose before letting the Founders shares come to this side of the water. Consequently there seems to be just now two obstacles in the way of having the founders sent here: first, there is the question raised regarding the 20 per centum of the parts of founder of the Company Continentale; and, second, there is this new question, which I do not yet understand, and which Mr. Railey cables yesterday he has written about, that seems to involve a condition precedent which must be performed on the part of our Company before our friends in Paris will allow the founders shares to be sent over here. What that condition precedent, thus to be performed by us, may be I do not know. It seems to relate to the transfer by our Company of certain fundamental patents on lamps, dynamos &c. A power of attorney was executed one year ago last December both by Mr. Edison and our Company to all the countries in Europe belonging to our Company, whereby these patents were transferred. So it is difficult for me to understand what this new point just raised is.

SECOND. What is this question of 20 per centum.

The best way for me to reply to this question is to recite the facts as they have been developed in recent correspondence.

Mr. Bailey wrote me, December 6th., that Mr. Porges, in connection with delivering to our company the parts of founder, had called attention to a clause in the Fifth Article of the Statutes of the Company Continentale. That clause provides that we may object to any amalgamation of the Company Continentale with other companies, and to any cession or transfer of the assets or any part thereof, so long, and only so long, as our company continues to hold at least one fifth (20 per cent) of its Company Continentale founders shares. The language used in this connection in the translation of the statutes (it was made by Mr. Lawson) is that this veto power is thus given to us so long as we "nomi-  
nally" hold at least said one fifth. But Mr. Bailey in his letter of December 6th. says that the word "nominally" is not a proper translation, and states that the French word really means "regis-  
tered shareholders". The French word is "nominativement".

So long as we hold these founders shares, we can not only object to amalgamation, but we can also object to any contracts for the sale of territory, and to any licenses being made without our consent. This is provided for in the 6th. article of the contract of November 15th.

It would seem from Mr. Bailey's letters that the certificates of the parts of founders belonging to us had been made out to the order of "bearer". It would further seem that when it

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was proposed to change at least 20 per centum of those founders shares, and have them made out to the order of this company, instead of to bearer, even that did not satisfy Mr. Porges and his associates. It would further seem that what they demand is that this 20 per centum of these shares should be deposited in a Trust Co., even though they be made out to the order of this company, with directions to that Trust Company to collect the dividends and pay them to our company here; this deposit to continue as long as the Company Continentale exists, or until we are willing to forfeit the rights given us pursuant to the statutes of the contract above referred to. Mr. Bailey recommends in his letter of December 6th. that this 20 per centum of these shares should be thus deposited with the Banque Centrale, which is Mr. Porges' bank in Paris.

We have been of the opinion here in New York, that if it becomes necessary to place this 20 per centum of these shares in deposit, the deposit should be made in some Trust Co., here in New York city and not in Paris. We ought to have the founders shares here at home, where the headquarters of our company is. There are some very good reasons why this should be so, which I will not stop to give in this connection. Referring to this view of the matter Mr. Bailey states, in his letter of December 30th. that he thinks perhaps Mr. Porges and associates would admit that the requirements of the case might be met if these shares were deposited in a Trust Company in New York city, instead of in Paris.

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provided a formal engagement be entered into by our company, properly legalized by the French consul, also by the Trust Company in this city, to give immediate advice to the Company Continentale in case we should at any time withdraw these parts of founder from the custody of the Trust Company. Mr. Bailey states that at the time he was writing that letter of December 20th. he was discussing with Mr. Porges the form of arrangement. I am in receipt of a letter from Mr. Bailey dated December 23rd., in which to my surprise, he makes no reference to what the result of the discussion touching such arrangement was. So I am in entire ignorance.

THIRD. In addition to this question of the 30 per centum of the founders shares in the Company Continentale, there is a collateral question raised, as to whether all of our founders shares, in all three of the companies, should not be tied up at least for say 10 years, by being deposited in a Trust Co. preferably in this city. Mr. Bailey argues very strongly in favor of this. He thinks it would give the shares of the company permanent value over there. He does not state whether the holders of the balance of the founders shares would be willing to place their shares in deposit in the same way. Probably they would not. Certainly Messrs. Puskas & Bailey would not, as they will probably need the money. That at any rate is a fair presumption.

Our European Light Co. here, has but one assett, these founders shares. It rests with the Board of Directors to sell these founders shares at any time. The power therefore rests



with the Board by one simple stroke of business to dispose of the entire assets of our European company here. That power, even the possibility of its being exercised, tends no doubt to depreciate the value of the stock of our European company in this city. but if it is known that these assets are permanently tied up, by being deposited in a Trust Co. in this city, under a formal agreement executed with the Paris Co. the tendency would be to give confidence in the minds of the public to the shares of our company here. This is Mr Bailey's line of argument.

FOURTH. The questions now for our Board to decide are as follows:

FIRST. Shall we insist upon all the founders being sent here immediately save and except the 20 per centum of the Company Continentale.

SECOND. Regarding the said 20 per centum of the founders shares of the Company Continentale, shall we deposit them in a Trust Company in New York City (provided Mr Porges' point is insisted upon by himself and associates) or shall we deposit them in Paris?

THIRD. Shall we enter into an agreement, to which the Trust Co. shall be a party, that we will not withdraw the shares thus deposited during the continuation of the Company Continentale, without their consent? Or shall we reserve the right to withdraw them at any time, provided we are willing to sacrifice the rights conferred by the contract and statutes, so long as we hold these

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shares in our possession?

FOURTH. Shall our company put all the founders shares  
~~in escrow and execute an agreement to retain them in escrow for~~  
a certain number of years, as suggested by Mr. Bailey; and if we  
shall do so, for how many years shall it be?

No. 2.

RECEIVED from the Edison Electric Light Company of Europe, Limited, seven hundred and fifty (750) Parts of Founder in the Société Industrielle et Commerciale Edison; the said seven hundred and fifty (750) Parts of Founder being one quarter of the Parts of Founder issued to the said Edison Electric Light Company of Europe, Limited, under the terms of the Contract between said Company and ourselves, bearing date November 15, 1881. We further acknowledge that the said seven hundred and fifty (750) Parts of Founder are in full settlement of our Commission as promoters of the said Société Industrielle et Commerciale Edison as expressed in a letter signed by Messrs. Lowrey, Batchelor & Bailey, addressed to us, and dated November 15, 1881.

Dated, Paris, 6 *Jan* 1883.

*Léon*  
*Louveau*

*M*

*Je déclare que je n'ai aucune réclamation à faire à la Edison Electric Light Co pour la part que j'ai prise à la formation de la Société Industrielle et Commerciale Edison*

*Paris le 6 Janvier 1883*

*Charles Page*



No. 3.

RECEIVED from the Edison Electric Light Company of Europe, Limited, five hundred (500) Parts of Founder in the Societe Electrique Edison; the said five hundred (500) Parts of Founder being one sixth of the Parts of Founder issued to the said Edison Electric Light Company of Europe, Limited, under the terms of the Contract between said Company and ourselves, bearing date, November 15, 1881. We further acknowledge that the said five hundred (500) Parts of Founder are in full settlement of our Commission as promoters of the said Societe Electrique Edison as expressed in a letter signed by Messrs. Lowrey, Batchelor & Bailey, addressed to us, and dated November 15, 1881.

Dated, Paris, *le 6 fevrier* 1883.

*Edison*

*Fournier  
Journat*



*Je declare que je n'ai aucune reclamations  
à faire à la Edison Electric Light Co. pour  
la part que j'ai prise à la formation de  
la Societe Electrique Edison*

*Paris le 6 fevrier 1883*

*Charles Dreyfus*

Paris 15 novembre 1881

Monsieur Eli Leon Paris

Sur Vostre des papiers qui me sont soumis par  
M. Edison et par la Electric Light Company de  
New-York, je vous vous reconnaitre les avantages  
suivants dans la formation des sociétés prévues  
par l'acte sous seing privé de ce jour, soit  
un dixième de parts ou fondateurs attribués à  
M. Edison et à la Electric Light Company dans  
la société d'exploitation au capital de un mil.  
lion, - un dixième de parts ou fondateurs qui  
sont attribués dans la société d'installations  
isolés par des villes au dessus de dix mille ha-  
bitants, et au quart des parts ou fondateurs  
attribués à M. Edison et à la Electric Company  
dans la société de fabrication.

Je vous autorise en conséquence Jones et Ryan  
à obtenir ces divers titres lors de la création de  
chaque des trois sociétés prévues.

Après mes vives salutations empresées  
(Signé) Batchelor, Bailey  
I. Approv. of the above arrangement by  
M. J. F. Bailey  
(Signé) Lowrey

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1883-02-24

The Edison Electric Illuminating  
Company of New York. *Hammilton*  
65 Fifth Avenue.

New York Feb 24<sup>th</sup> 1883

My Dear General

No letters for you. The following is a Cable dated Berlin 24<sup>th</sup>.  
"Cable what follows my name  
bailey national bank wilhelm strasse  
Berlin representing carmens halske  
gutzbach brothers jacob landau and  
national Bank we hereby authorize  
Joshua J. Bailey sign contract with  
above persons on our behalf and will  
confirm signature by duly executed  
powers Thomas Alva Edison personally and  
President Edison Electric Light Company Europe  
limited."

Truly Yours  
*Ed. Hammilton*

*The Edison Electric Light Company  
of Europe Limited*

1883-03-21

65 Fifth Avenue New York March 21st, 1883.

T. A. Edison, Esq.

Dear Sir:-

Enclosed please find check for \$28.54, which please place to the credit of Mr. Charles Batchelor, the same being to reimburse him for 2 Cablegrams sent to us relating to Founders shares, such cables amounting to 142.70 Francs.

I send the amount to you with the above request at the suggestion of Mr. Batchelor.

Very truly yours,



Second Vice President.

(of Europe Series)

Date of last Report, 18

Record of Transfers of EDISON ELECTRIC LIGHT CO. Stock, by FARMERS' LOAN & TRUST CO., Transfer Agents at New York, for the Week ending March 31, 18 83.

## STOCK SURRENDERED.

DATE OF SURRENDER.	NUMBER OF CERTIFICATE.	NUMBER OF SHARES.	IN WHOSE NAME.
1113 Feb. 1	220	1	Brookland Gasworks
3	477	75	Geo. Lewis Bowen Mfg
5	717	33	J. W. Ord
6	307	1690	E. P. Fabrie
		1690	Daniel Bergman & Co
8	7246 <sup>0000</sup>	300	F. S. Schleminger
	721	23	John W. Ord
	737	60	F. S. Schleminger
13	754	5	F. M. Ritter
	720	3887	J. C. Elliott

## STOCK ISSUED.

DATE OF CERTIFICATE.	NUMBER OF CERTIFICATE.	NUMBER OF SHARES.	IN WHOSE NAME.	ADDRESS.
1113 Feb.	715	1	J. J. Bergmann	
3	718	5	Albert Krohn	
	719	70	Geo. Lewis Bowen	Brooklyn 122
5	720	10	J. C. Elliott	Elizabeth 19
6	721	23	John W. Ord	119 of Ave 18th
		1690	Daniel Bergman & Co	
	722/23	1200	F. S. Schleminger	21 Dwyer St 16.
	734	65	"	
	735/76	180	"	
	738/42	175	"	
	740/76	28	"	
	747	12	"	
	748	20	"	
8	749	50	John D. Delphener	New York
	750	60	"	
	751/2	190	"	
	752	10	J. C. Elliott	
	754	5	F. M. Ritter	
	755	8	John W. Ord	
	756	25	F. S. Schleminger	
	757	12	"	
	758	23	"	
13	759	15	Ed Davis	New Point N.Y.
		3887		



*of Empire Limited*

Date of last Report, \_\_\_\_\_ 18

Record of Transfers of EDISON ELECTRIC LIGHT CO. Stock, by FARMERS' LOAN & TRUST CO., Transfer Agents at New York, for the ~~Week ending~~ *22* Feb 21 18 *19*

STOCK SURRENDERED.

STOCK ISSUED.

DATE OF SURRENDER.	NUMBER OF CERTIFICATE.	NUMBER OF SHARES.	IN WHOSE NAME.	DATE OF CERTIFICATE.	NUMBER OF CERTIFICATE.	NUMBER OF SHARES.	IN WHOSE NAME.	ADDRESS.
<i>Feb 22</i>	<i>Forward</i>	<i>3887</i>	<i>N. Coddington</i>	<i>Feb 22</i>	<i>760</i>	<i>3887</i>	<i>N. Wallerstein</i>	<i>N.Y.</i>
	<i>571</i>	<i>10</i>				<i>10</i>		
		<u><i>3897</i></u>				<u><i>3897</i></u>		

1883-04-03

*The Edison Electric Light Company  
of Europe Limited*

65 Fifth Avenue, New York, April 3rd, 1883

T. A. Edison, Esq.

City.

Dear Sir:

A special meeting of the Directors of the Edison Electric Light Company of Europe, Limited, will be held on Thursday April 5th, at one o'clock P. M., at the office of Messrs. R. L. Cutting, Jr. & Co., 19 William Street, for the purpose of confirming the contracts heretofore executed in our behalf by Mr. J. F. Bailey with the Germany Company and Messrs. Siemens & Halske. Inasmuch as we have only 30 days from the date at which the contracts were executed in Berlin (March 13th.) to ratify the same it is necessary to close up this matter at once. You are, therefore, earnestly invited to be present at the above meeting.

Very truly yours,

*Wm. H. Kelleadowcroft*

Secretary.

*The Edison Electric Light Company  
of Europe Limited*

*65 Fifth Avenue, New York.* April 16th, 1883.

Dear Sir:-

A special meeting of the Directors of the Edison Electric Light Company of Europe, Limited, will be held at the office of Messrs. R. L. Cutting, Jr. & Co., 19 William Street, New York City, on Wednesday, April 18th, 1883, at 1 o'clock P. M. for the purpose of discussing means for raising the money to pay the interest, due May 1st, on the Debenture Bonds issued by this Company,; also to fix the compensation of Major S. B. Eaton, Second Vice President and General Manager.

Yours truly,

*Wm. A. Alcedovero*  
Secretary.

By order of  
The President.

(over)

Mailed copies of witness to J. A. Edison, 65 1/2<sup>nd</sup> Avenue, J. W. Doolittle, 17  
Wall St., G. L. Cutting, 19 William St., James H. Bunker, 19 William St., also  
N. Y. City, also to James H. Bunker, Brighton, N. Y. & handed copy to S. B. Eaton personally  
at on April 16/62. M.H.W.

The Edison Electric Light Company  
of Europe Limited

65 Fifth Avenue, New York April 18<sup>th</sup> 1883.

Mr. W. H. Meadowcroft, Secy.  
City.

Dear Sir:

I hereby accept the terms agreed upon at the meeting of the Directors of The Edison Electric Light Company of Europe, Limited, this day, touching my compensation from April 16<sup>th</sup> 1881 to January 1<sup>st</sup> 1888, as follows:

(1) The terms stated in my two letters addressed to Mr. Banker, dated August 25<sup>th</sup> 1882 and November 21<sup>st</sup> 1882.

(2) The maximum compensation not to amount to more than \$7200 for annum on an average for the time specified covering this agreement.

(3) The arrangement to be binding on both the company and myself until the termination of the period named, namely, January 1<sup>st</sup> 1888.

(4) My commission is not to apply to the founders shares in the three French companies heretofore received by this company.

Very truly yours,

A. Edison

The Edison Electric Light Company  
of Europe Limited

1883-04-18

65. Fifth Avenue, New York, Apr 18 1883

T. A. Edison Esq.

Dear Sir -

I believe my compensation will be fixed by the European Co. to-day, so I put on record, for your personal files, this statement - similar to the one I have filed with you concerning the Ott Milling Co. - That whenever I receive any compensation fr. the European Co. I shall pay you such proportion of it as your stock, personally held by yourself, bears to the whole stock. In other words, I shall take no pay from you - that comes even indirectly out of your pocket - Because I

1853-04-18

Electric Light Company  
Europe Limited

65-75th Street, New York

1888

Consider that the stock received for you is all  
the compensation I am entitled to, so far as  
you personally are concerned.

I put this in writing in order to  
avoid any misunderstanding in future, & spe-  
cially in the event of my death.

Very truly yours

S. P. Dalton

Simon Light Co.  
of Europe Limited.

Abbey Edward W.	3
Ayres James L.	5
Albinola C.	5
Asote Henry W.	14
" Mrs. Sadie D.	3
Abbott Miss Ida J.	6
Banker James M.	3333
Barker Geo. F.	25
Bass Egan W.	25
Bailey Floyd	35
" " " " " " " "	50
" " " " " " " "	5
Batchelor Char.	854
Grant John	3
Bathurst Char.	10.
Bergman S.	26
Bunker Samuel	190
Carman William	60
" " " " " " " "	4
" " " " " " " "	6
Clarke Char. L.	20
Carmann Char. L.	3
Carr Nigginson	10.
Castelbolognesi Jacques	13
Cesqua A. D.	5
Crowell Eugene	25
Coster W.	5
" " " " " " " "	25
Colby Ch.	24



2

Forquard	117.21
Cox J. L. Jr.	2
Congdon J. W.	1
" Geo. C.	9
Cuddington Herbert	100.
Cutting R. L.	315
" William	25
" R. L. Jr.	350
" H. D.	175
Cunningham Geo. Hans E.	1.
Curtis John W.	1.
de Pokas Francis	400.
Deering James	10.
Dwinn Michael W.	5.
Dodson R. D.	5.
Eason Thomas A.	6064.
Earl Mrs. H.	14.
Eaton J. D.	55.
Ellott J. C.	20.
Faber Alfred	5.
Fatman J. J.	10.
Fish James J.	10.
Forkes John E.	1.
Fortz Fred W.	20.
Gamer John W.	1.
Greene Gardiner	10.
Griffith S. L.	

Forward	12403
Gundershewer H. H.	170.
Gustenhofen F. C.	3
Guyfay	2
Goddard Calvin	5
Gower Geo. Lewis	70.
" " " Atty	300.
" " " for F. A. Bowen	1150.
Harband Thomas	150
Heggenwisch A.	40.
Holgate A. L.	4.
Hunt A. C.	5.
Jaffray Robt. Jr.	1
" Mrs. Lydia Dutton	1
Jaguar M. L.	35.
Jambis H. F.	9.
Jehf Francis	3.
Johnston L. C.	30.
Jones F. H.	9.
Johnston F. H. Jr.	7.
Johnson Edward M.	15.
" Chas. H. Jr.	5.
Judson & Newton	2
Insull Saml.	40.
Knyssi John	20.
King Chas. W.	3.
Kitson Arthur	7.
Knight Geo. W.	1403.

H.

Forward	14492.
From Albert	5.
Ladd Mandy	2.
Launceston Chas. D.	5.
Leven Oscar	20.
Livingston Newman	1.
McLaughlin Frank	155.
McKesson G. C.	2.
Meadowcroft W. H.	1.
McLean F.	3.
Miller & Peck	200.
McGinnies John Jr	5.
McImary J. M.	91.
Miller H. L.	500.
McImary Eugene	10.
Mott Saml. D.	10.
Moore W. H.	5.
Moser Otto A.	45.
Morgan F. H.	3.
Moore M. F.	5.
Moller & Co.	11.
Mott Chas. P.	2.
Nicherson J. H.	5.
Norman Mrs. Mary R.	1.
Ord John M.	8.

Forward	15587.
Parsons Lewis	10.
Paul Jan M. Jr	1.
Pelton Guy R.	19.
Perry M. S.	228.
Peacock Myr C. D.	3.
Peter Long K.	10.
Pickard Theodore	190.
Supportas	167
Pulston J. M.	25
Randolph Margaret A.	2.
Richmond James	10.
Rogers W. B.	5
Rousseau Constant	500.
Supportas A. J.	8
Sampson W. L.	103.
Sheppard C. L.	1.
Schlesinger F. J.	1367.
Smith Dexter J.	2.
" Luba W.	1.
" Mortimer J.	3.
Smithering Mrs Lavinia M.	4.
Silkep Geo W.	3.
Sproden Char.	2
Stormy Henry	2.
Scott Geo S. & Co.	40.
Soren Geo W.	10.
Squires C. M.	5

Forward	18308
Thomas Geo. O	17.
Upham John D.	300.
Morgan Charles & Co	2.
Upton F. R.	300.
Von Hoffman L. & Co.	150
Watzel Louis	110.
" Frost & Co.	45
Walton James	1.
Warren Schuyler & Co.	500.
Walterstein W.	242
Whiting Missions Co.	10.
" Bradford &	10
" Lammertine	5.
	<u>20000.</u>

Office of the Farmers' Loan & Trust Co.  
 369 & 72 William St. N.Y. Apr. 25<sup>th</sup> '83  
 I hereby certify the foregoing to be  
 a true and correct list of the stock holders  
 of the Dixon Traction Light Company  
 of Europe, Limited, and their  
 respective holdings at the close  
 of business on April 22<sup>nd</sup> 1883.  
 W. N. Buckley  
 Transfer clerk.

April 25<sup>th</sup> 1883.

R. L. Cutting, Jr., Esq  
Treasurer.

Dear Sir:

At a meeting of the Board of Directors of this Company, held April 5<sup>th</sup> last, it was resolved that the receipt of the Central Safe Deposit Company of New York for the box containing our Parts of Founder in the Societe' Edison Edison and the Societe' Industrielle et Commerciale Edison should be handed to you, as Treasurer of the Company, for safe keeping.

Enclosed herewith I now beg to hand you such receipt, in pursuance of such resolution.

Will you kindly write me in acknowledgment thereof.

Very truly yours,

  
Second Vice President.

1883-152

PROXY.

W. Reid Gould, Law Blank Publisher and Stationer, 123 Nassau St. N. Y.

Know all Men by these Presents, That  
I, James H. Banker, of Irvington, N. Y.

do hereby constitute and appoint S. B. Eaton \_\_\_\_\_

Attorney and Agent for me and in my name, place and stead, to vote as  
my proxy at ~~my~~ <sup>the annual</sup> election of directors of the Edison Electric Light Co. of  
Europe, Limited, to be held May 2<sup>nd</sup>, 1883 \_\_\_\_\_  
according to the number of votes I should be entitled to vote if then personally  
present.

In Witness whereof, I have hereunto set my hand and seal  
this thirteenth day of April — one thousand eight hundred  
and eighty three.

Sealed and delivered in the presence of  
Wm. Helleadowcroft James H. Banker 

*W. Knicker, Limited*

Date of last Report, *Nov 1<sup>st</sup>* 18*83*

Record of Transfers of EDISON ELECTRIC LIGHT CO. Stock, by FARMERS' LOAN & TRUST CO., Transfer Agents at New York, for the <sup>Year ending</sup> *May 1<sup>st</sup>* 18*82*

STOCK SURRENDERED.

STOCK ISSUED.

DATE OF SURRENDER.	NUMBER OF CERTIFICATE.	NUMBER OF SHARES.	IN WHOSE NAME.	DATE OF CERTIFICATE.	NUMBER OF CERTIFICATE.	NUMBER OF SHARES.	IN WHOSE NAME.	ADDRESS.
<i>Nov 3</i>	<i>758</i>	<i>23</i>	<i>F. J. Schlemmer</i>	<i>Nov 3</i>	<i>761 am</i>	<i>3</i>	<i>M. S. Samson</i>	<i>Duval Morgan &amp; C</i>
					<i>762</i>	<i>2</i>	<i>J. Bradley</i>	<i>"</i>
					<i>4</i>	<i>1</i>	<i>J. K. Paul, Jr</i>	<i>Duval &amp; G. P. White</i>
					<i>5/6</i>	<i>17</i>	<i>Geo Thomas</i>	<i>do</i>
		<i>23</i>				<i>23</i>		



Know all Men by these Presents, That I Thomas A. Edison

do hereby constitute and appoint Samuel Insull failing whom S. B. Eaton

Attorney and Agent for me, and in my name, place and stead, to vote as my proxy at the Annual Election of Members of the Edison Electric Light Co of Europe to be held on 2<sup>nd</sup> day of May 1883

according to the number of votes I should be entitled to vote, if then personally present.

In Witness whereof, I have hereunto set my hand and seal, this 1<sup>st</sup> day of May one thousand eight hundred and eighty three

Sealed and Delivered in the Presence of

S. Bergmann.

Thomas Edison

PROXY.

W. Hoad Gould, Law Blank Publisher and Stationer, 168 Nassau St. N. Y.

Know all Men by these Presents, That I Charles Batchelor

do hereby constitute and appoint Samuel Insull failing whom S. B. Eaton

Attorney and Agent for me and in my name, place and stead, to vote as my proxy at ~~any election~~ the annual meeting of the Edison Electric Light Company of Europe to be held on 2<sup>nd</sup> day of May 1883 according to the number of votes I should be entitled to vote if then personally present.

In Witness whereof, I have hereunto set my hand and seal this 1<sup>st</sup> day of May one thousand eight hundred and eighty three

Sealed and delivered in the presence of

S. Insull

Chas Batchelor

A

State of New York :  
 : ss:  
 City and County of New York :

Edward E. Davidson and F. McGowan being severally duly sworn, each for himself, says: that he will discharge with fidelity the duties of his office as Inspectors of election of Directors of the Edison Electric Light Company of Europe, Limited, at the annual meeting of the stockholders of said Company held this 2nd, day of May, 1883; that he will not receive any vote but such as he believes to be legal, nor reject any vote which he believes to be legal.

Subscribed and Sworn to }  
 before me this 2nd, day }  
 of May, 1883.

Wm H. Meadowcroft  
 Notary public  
 N. Y. Co.

F. McGowan  
 Edward E. Davidson

1883-05-02

C

State of New York, :  
: ss:  
City and County of New York :

We, Edward E. Davidson and P. McGowan, the  
Inspectors of the election of Directors had at the annual meeting  
of the stockholders of The Edison Electric Light Company of Europa,  
Limited, held this 2nd, day of May, 1883, hereby report that having  
first taken and subscribed the oath hereto annexed, we entered up-  
on the duties of our office as such Inspectors as aforesaid; that  
on the closing of the polls we canvassed and counted the votes  
cast, and find that there was present at such meeting, in person  
or by proxy, holders of Ten thousand two hundred and fifty three  
shares of the Capital stock of the said Company; that there were  
cast at such election Ten thousand two hundred and fifty three  
(10,253) votes; and that all of them were cast for the following  
named persons as Directors for the ensuing year, namely: Thomas  
A. Edison, James H. Banker, Robert L. Cutting, Frederick W. Foote,  
and S. B. Eaton.

Dated May 2nd, 1883.

*P. McGowan*  
*Edward E. Davidson*

1883-05-02

Edison Electric Light Co  
of Europe Limited

Annual meeting May 2/83

For Directors

J. A. Edison

S. B. Eaton

F. W. Fook

R. L. Cutting

James H. Baile

I vote the above ticket for James H.  
Baile 3333 shares, J. A. Edison  
6064 shares + Charles Batchelor 854  
shares

J. H. Baile

1883-05-02

Edison Electric Light Co of  
Europe, Limited.

Annual meeting May 2/83

For Directors

Thos A. Edison

S. B. Eaton

F. W. Fooker

R. L. Cutting

James H. Ranken

I vote this ticket / when  
W. H. Macdonald

*The Edison Electric Light Company  
of Europe Limited*

188(3)-05-02

*65 Fifth Avenue New York* May 2nd, 1888

T. A. Edison, Esq.

City.

Dear Sir:-

Enclosed please find copy of annual report this day  
submitted at the annual meeting of the stockholders of this Com-  
pany, which I beg to hand you for your files.

Very truly yours,

*A. S. Brown*

(1882)

REPORT OF THE BOARD OF DIRECTORS TO THE STOCKHOLDERS  
OF THE EDISON ELECTRIC LIGHT COMPANY OF EUROPE, LIMITED.

Since the report made to you at your last meeting, May 3rd, 1882, many important subjects which we will briefly enumerate below, have received our attention.

Several matters of great importance to the Company were adjusted last Autumn, during the visit of Mr. J. F. Bailey, one of our representatives at Paris, to this Country. We refer principally to certain proposed amendments to the Contract of November 15, 1881, with the Paris Syndicate, also the disposition of the Founders shares, and the payment of the Commission of five per centum of the Founders shares to Messrs. Puskas & Bailey for their services.

In regard to the Founders shares coming to this Company, namely, 8000 founders shares in the Compagnie Continentale Edison; 3000 founders shares in the Societe Industrielle et Commerciale Edison; and 3000 founders shares in the Societe Electrique Edison there have been some divisions of the same since the last annual report, which may be mentioned here. Without going into minute detail in regard to the same, it may suffice to say that the following is the final division of our proportion of these shares, namely:

In the Compagnie Continentale we were entitled to 8000

(1883)

2

parts of founder, which have been divided as follows:

One tenth to the Paris Syndicate.....	800 shares.
To Mr E. Leon for services.....	70 "
Puskas & Bailey, 5 per centum for ser- vices.....	356 "
Balance to this Company.....	6,774 "
Total.....	8,000 "

These 6774 shares entitle our Company to  $67 \frac{3}{4}$  per cent of the net profits of this Company.

In the Societe Industrielle, the Manufacturing Company, we received 3000 founders shares, divided as follows:

To the Paris Syndicate.....	750 Shares.
To Puskas & Bailey for services.....	112 "
Balance to this Company.....	2,138 "
Total.....	3,000 "

These 2138 shares entitle us to about  $35 \frac{1}{2}$  per centum of the net profits of this Company.

In the Societe Electrique, or ~~Electric~~ Company, we had 3000 founders shares, which are divided as follows:

To the Paris Syndicate.....	500 shares.
To Puskas & Bailey for services.....	125 "
Balance to this Company.....	2,375 "
Total.....	3,000 "

Our share therefore in the profits of this Company will



(1883)

3

be about 47  $\frac{1}{2}$  per cent.

We have recently received from Paris our 2138 parts of founder of the Societe Industrielle, and 2375 parts of founder of the Societe Electrique. These shares are represented by certificates for one share each, payable to bearer, and after being carefully counted they were deposited by the Treasurer of the Company in the custody of the Central Safe Deposit Company of the City of New York, where they now are.

We have not, however, yet received our proportion of the founders shares in the Compagnie Continentale. The reasons for this briefly stated, are as follows:

Under the contract with the Paris Syndicate of November 15th, 1881, and under the articles of association thereunder, this Company is entitled to veto any proposition for selling out the European Companies to any other interest, also to veto any proposition to amalgamate or consolidate with any other company or companies; also to refuse to ratify any contract made by the Compagnie Continentale Edison with other countries. In order, however, to exercise these privileges this Company must be the owner of Twenty per cent of the founders shares attributed to it by the Compagnie Continentale Edison. The point is made by that Company that, inasmuch as these founders shares are made payable to bearer, they would have no assurance that we were still the owners of the requisite percentage if all the founders shares were sent over here. They have requested that we shall deposit the Twenty

(1883)

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per cent of such founders shares in a bank or trust company in Paris in our name, thus affording the Compagnie Continentale positive assurance that we were the owners of such shares. This your Board think would not be advisable. We think that as the headquarters of the Company are here all the founders shares should be kept here in the Company's own custody. Much correspondence has passed between the Paris Company and ourselves on this subject, and our offer to deposit the Twenty per centum in a trust company in this City under certain guarantees that it could not be withdrawn, has so far been declined, and their suggestion to deposit the Twenty per centum in Paris and send the remainder on here has been renewed by them. Your Board has, however, recently directed the Second Vice President, Major Eaton, to communicate directly with Mr. Porges, the President of the Compagnie Continentale, and suggest to him that he himself name the Bank or Trust Company in New York in which he would be satisfied to have the founders shares deposited, with stringent restrictions upon their withdrawal. No answer has as yet been received to this proposition, but we trust it will meet with his acceptance, and the shares will all be sent here.

Early in June of last year preliminary contracts relating to the formation of both a German Company and an Italian Company were sent to us for approval, and after considerable discussion the same were approved. These contracts provided merely for the formation of preliminary companies for the exploitation

1883

of the Edison patents in Germany and Italy, but since that time a permanent Company for Germany has been organized. Mr. Bailey has recently spent two months in Berlin in the negotiations for this last named Company, and, in addition, in arranging for a consolidation of the Edison interests with Messrs. Siemens & Halske, the well known electrical manufacturers in Germany. The final contracts between the German Syndicate, Messrs. Siemens & Halske, The Compagnie Continentale Edison, the Societe Electrique Edison, and this Company were formally executed in Berlin on March 13th., and formally ratified and confirmed by this Company in this City on April 7th. 1883.

This German contract is practically made between the Compagnie Continentale Edison, as our assignees of our patent rights for Europe, and the German Company and Messrs. Siemens & Halske, the only purpose for which our Company was made a party to the contracts being to have our formal ratification thereof in writing. The Company Continentale Edison therefore receives the considerations mentioned in the contracts and we ultimately get our portion thereof by virtue of the <sup>founder's</sup> shares above mentioned. The considerations given by the German Company and Messrs. Siemens & Halske are as follows: The German Company pays the Compagnie Continentale \$80,000 at once. It also pays a royalty, whenever a plant is installed of three dollars per horse-power for isolated plants and four dollars per horse-power for central Station plants; besides a royalty of six cents on every lamp. The

(1883)

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Compagnie Continentale also receives founders shares which entitle it to about twenty per centum of the profits of the German Company. Siemens & Halske pay the following royalties on all installations made by them: Whenever they make an installation, they pay six dollars per horse-power on isolated plants and eight dollars per horse-power on central station plants; besides a royalty of twelve American cents per lamp.

From a careful reading and consideration of these contracts and from all the information we can obtain from abroad, your Board has every reason to believe that these German contracts are the best obtainable in that country, and that, on the whole, they will prove with the consolidation of the Siemens and Edison interests, very beneficial to all concerned.

No permanent Italian Company has as yet been formed. The contract with the Italian Syndicate above spoken of provides that said Syndicate shall organize a Company of 3,000,000 francs, of which half was to be used for manufacturing, and the other half for the exploitation of central station systems. This Company was to exist at least a year, if at the end of the year it does not renounce its rights, it is to be continued for 49 years longer. Should the Italian Company be determined at the end of the first year the Paris Companies recover their full rights to the Italian patents. If the Italian Company is continued for 50 years, the profits of manufacturing and isolated business is to be divided equally between the Italian Company and the Paris Com-

(1883)

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pany. In the same event the Paris Company receives  $\frac{1}{4}$  of the capital and all increases thereof of any sub-company organized for central station lighting in Italy.

Considerable progress has been made by the Societe Electrique in the installation of isolated plants throughout the various countries of Europe. These installations were given in detail in the Sixteenth Bulletin issued by the Edison Electric Light Company, New York City, copies of which were sent to all Stockholders of this Company. At the date of that Bulletin, February 2nd. 1883, these European installations numbered 108, with an aggregate of 19, 536 lamps. Since that time many additional installations have been made, and others are now in progress of completion. These plants we are informed are giving entire satisfaction and many of them have been largely increased. For instance, an installation of 60 lamps was made for Finlayson, & Co. Tammerfors, Finland, which has been increased to 650 lights, and an installation in the Railway Depot at Strasbourg, which has been increased from 60 to 1200 lights. Several Central Stations are also in progress of erection, among which we may mention a Station of 5000 lights in Milan, one of 1000 lights in Rotterdam and one of 1000 lights in St. Petersburg.

The factory for the Societe Industrielle, which was mentioned in the last report as having been bought, has since been fully stocked with machinery and tools, and is now manufacturing not only dynamos and lamps, but most of the other apparatus used

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in installing Edison plants. This factory is in charge of Mr. Batchelor, who has frequently been complimented upon its unusual completeness and high state of efficiency.

Important negotiations for exploiting our business on a large scale are now going on in Paris and London. It is not the province of your Directors to make predictions as to what will grow out of these negotiations, but it may be proper for us to state that the indications are favorable for procuring large amounts of capital to develop the business, especially that of Central Station lighting, on a large scale during the next year.

In concluding this Report, your Board desire to present their congratulations upon the progress made since the last annual meeting, and upon the bright prospects for the future.

*The Edison Electric Light Company  
of Europe Limited*

1883-05-18

RECEIVED  
MAY 19 1883  
ANSWERED

*65 Fifth Avenue, New York*

May 18th

FILE No.

Dear Sir:-

A meeting of the Directors of the Edison Electric Light Company of Europe, Limited, will be held at the office of Messrs. R. L. Cutting, Jr. & Co., 19 William Street, New York City, on Monday, May 21st., at one o'clock P. M. for the purposes of organization, and also for the purpose of passing a formal ratification of the Italian Contract which was confirmed by the Board June 9th. 1882.

Yours truly,

*Wm Helleadwaft*

Secretary.

July 5, 1883

Receipt of Priskas  
& Bailey for all Parts  
of Souther

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N. 6.

We hereby acknowledge to have received from the Edison Electric Light Company of Europe, Limited, two hundred and twelve parts of Founder of the Société Industrielle et Commerciale Edison, the same being five per cent of the Parts of Founder issued to said New York Company after deducting one quarter thereof for the commission of Mr. Léon.

We also acknowledge to have received from the said Edison Electric Light Company of Europe, Limited, one hundred and twenty five Parts of Founder of the Société Electrique Edison, the same being five per cent of the Parts of Founder issued to said New York Company after the deduction of one sixth thereof for the commission of Mr. Léon.

We also acknowledge to have received from the said Edison Electric Light Company of Europe, Limited, Three hundred and fifty six Parts of Founder of the Compagnie Continentale Edison, the same being five per cent of the Parts of Founder issued to the said New York Company after the deduction of one tenth thereof for the commission of Mr. Léon, and after deducting the seventy shares given to Mr. Léon.

We further acknowledge that the

above named Parts of Founder are assigned to and accepted by us, in accordance with the terms of a certain agreement made between ourselves and the said Edison Electric Light Company of Europe, Limited, dated August 26<sup>th</sup>, 1882, as full compensation for past and future services and disbursements in behalf of said Edison Electric Light Company of Europe, Limited, and in consideration of such Parts of Founder, we hereby jointly and severally release the said Edison Electric Light Company of Europe, Limited, and Thomas A. Edison, individually, from any and all claim and demands of every kind whatsoever from the beginning of the world until the present day.

We witness our hands and seals, at the city of Paris this fifth day of July 1883.

For Theodore Puskas

In the presence of

W. Bequest

For J. F. Bailey

in the presence of

J. Colombe

Milan 7<sup>th</sup> of July 1883

Theo. Puskas

J. F. Bailey

1883-08-04



Torina Aug 4/83  
CUNARD ROYAL MAIL STEAM SHIP

My dear Edison

I expected to have  
returned to New York by this  
Ship, but am prevented  
at the last moment by  
a matter of business  
which makes it necessa-  
ry for me to return to  
Vienna - My family go  
home & I am accompa-  
nying them to Aachen  
from whence I return to  
London & thence to Vienna.  
I hope not to be detained  
here more than two or  
three weeks & shall sail

for home as soon as the  
matter referred to can be  
settled. You will have heard  
through Johnson or otherwise  
of Bailly's endeavors to form  
a new General Company  
for Europe; meantime  
overtures have been made  
by two of the largest financial  
Concerns in Vienna to  
acquire the Edison rights  
in Europe, and I am now  
advised that they are quite  
ready to take the matter  
in hand. I have not time  
to enter into particulars  
but suffice it to say  
that I have had sufficient  
evidence to satisfy me  
there is enough in it to

make it worth my while to remain &  
take the long journey to Vienna - Should  
Johnson something of this in Paris  
the case be able to give you more details  
than I can write. I think it just as  
well, probably better, to say nothing of  
this to Eaton or any one in interest as my  
conscience have been to Vienna and find  
out what the prospect are - but I wanted  
you personally to know what is happening  
more than beyond the time at which  
I intended to return - to say of the hearing of  
your suggestions to say of the hearing of  
Mrs & Weston's plan who is on board that  
I am going to write to you when at

said "tell him from me that I bless him  
every day of my life for Polyphemus."

I'll keep you posted as to progress of  
this affair and there may be a chance  
to make something out of European Co  
Stock if there is I will give you the first  
news if you must put me in for some.

Yours truly  
C. Gould

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1.500.000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'honneur  
PARIS 1881



Ivry-sur-Seine, le  
5. RUE DU PARC.

Reçu de la "Edison Electric Light Co. of Europe Limited," huit cents (800) Parts de fondateur de la "Compagnie Continentale Edison"; les dites huit cents parts de fondateur se présentent le dixième de la totalité des Parts de fondateur dévolues à la dite "Edison Electric Light Co. of Europe Limited," en vertu de la Convention portant la date du quinze Novembre 1881, passée entre la dite Compagnie et moi.

Je reconnais, en outre, que les dites huit cent parts de fondateur constituent rigoureusement intégral de la commission à laquelle j'ai droit comme fondateur de la dite "Compagnie Continentale Edison," ainsi que cela résulte d'une lettre, datée du quinze Novembre 1881, qui m'a été adressée par ses signataires Messieurs Courroy, Batchelor et Bailey.  
Fait à Paris, le 6 Août 1883.

*[Signature]*

Je reconnais, que je n'ai rien à réclamer à  
M<sup>r</sup> Edison ou à la Edison Light Co. of Europe en  
ma qualité de fondateur des Co. Continentale  
Edison.

Paris le 6 Août 1883

*[Signature]*

August 6, 1883

Receipt of Messrs Forges & Co  
for 800 parts of powder  
of Compagnie Antinucléaire

*Same as  
{*

Statement regarding the unpaid claim of The Edison Electric Light Company of Europe, Limited, New York City, against the Compagnie Continentale, Paris, on account of the Edison Exhibit at the Paris Electrical Exposition.

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THE ORIGINAL PROPOSED PUSKAS & BAILEY AND LEON CONTRACT.

The commencement of the Light Co's business in Paris was the proposed contract between Messrs. Puskas & Bailey and M. Leon, submitted by Mr. Bailey in the Spring of 1890, to the Light Co. for its approval.

It appeared, from that contract, that M. Leon wished to secure an option on the Edison system for Paris and suburbs, also a commission on the Edison business throughout France, and that he was willing to pay for this option the sum of 150,000 francs, or such smaller amount as it might cost to exhibit the Edison light in the Paris Electrical Exposition. It further appeared that Leon had doubts about the success of the light, consequently, as his option on Paris would not have much value if the Light failed, the contract provided that if the light was a failure at the Exposition, the Light Co. would reimburse him. Puskas & Bailey deposited 1000 shares of their own stock in the Light Co. to secure Leon, in case the Light Co. failed to reimburse him.

This proposed contract was not executed. The Light Co. decided, with Leon's consent, that the contract had better be made



directly between the Company and him. Thereupon a new contract, with no substantial changes, was prepared and submitted to M. Leon through Mr. Wallerstein of New York. It was subsequently executed by the Light Co. and Leon, and is known as the Contract of June 8th. 1881.

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CONTRACT WITH LEON, JUNE 8th. 1881. The main provisions of this contract, mentioned above, between the Light Co. and M. Leon were as follows:

(1) M. Leon was to have (1) the option until November 10th., 1881, to form a company for Paris and the Banlieu, (2) a commission on what the Light Co. might receive in case such company was formed, (3) a further commission of 5 per centum on all business done in France, and (4) the preference at equal price of all business done in France. This valuable option was afterwards extended, at Leon's request, until the end of February 1882.

(2) The Light Co. was to exhibit the Edison light at the Paris Exposition, using the money paid by Leon for the above option, to defray the expense, to the amount of 150,000 francs. If the light was not a success the Light Co. was to reimburse Leon, and Puskas & Bailey voluntarily left their 1000 shares of stock, above mentioned, in pledge to secure this repayment. The language of the contract (Section 3) is as follows:

"Leon binds himself to furnish to the Company such sum

of money as may be necessary to make an exhibition of the Edison system of Lighting at the said Paris Exposition, said sum to cover the cost of the entire plant, including machinery, wires, lamps, et cetera; together with freight thereon, and the actual compensation and expenses of such person or persons as may be sent or otherwise employed by the Company in connection with said exhibition.\* The total expenditure was not to exceed 150,000 francs (about \$30,000);

(3) There are three points upon which the contract is silent as follows:

First. Who was to furnish any additional money required in case the amount furnished by Leon was not enough? The contract failed to provide for this, and, inasmuch as Leon declined to furnish any additional amount, the Light Co. made up the deficit. The total cost of the Exposition plant and exhibition was \$51,261.65, of which Leon paid only \$30,000., and the Light Co. paid \$21,261.65, thus making up the deficit.

Second. Was Leon to be reimbursed the 150,000 francs in case the light was a success but he still not form the Paris Company? In other words, suppose he did not avail himself of his option, even though the light was a success, was he to be reimbursed? The contract does not provide for any such repayment. The contract, however, does provide if the light did not succeed, the Light Co. would reimburse Leon; also that if the Light did succeed and Leon formed the Paris company, he was to be repaid out of what the Light Co. would get. But the contract was silent

as to whether Leon's 150,000 francs should be repaid in case the light was a success but Leon did not form the Paris Company. This is an important point. The Light was a success, yet Leon did not form the company, although he was in possession of the option to do so for nine months. Consequently, so far as the Light Co. is concerned, Leon had no right whatever to be reimbursed.

Third. Who was to own the exhibition plant, after the Exposition closed? This is a vital question, especially in view of the fact that Leon treated the plant as though he owned it, that is to say he took possession of the plant, sold it, and took the proceeds, all without the Light Co's knowledge or consent. What right had Leon to do this? The Light Co. asserts that he had no right, and the reasons for that belief are given below:

(1) It may be said that Leon furnished his money in order to acquire title to the plant, and that therefore it was his. There would be force in this statement, were it true, but the fact is, as shown by the contract, that Leon paid his money not to acquire title to the plant, but to secure title to something else, namely, an option for Paris. Leon paid the Light Co. a certain sum for a specific thing, the Paris option, and the Light Co. agreed to use that money for another specific thing, to make an exhibition. That arrangement is, as matter of law, quite a different thing from Leon paying his money to buy and own the plant. The contract is clear upon this point. Leon bought an option and had a right to sell it; the Light Co., instead of putting the money he paid for the option in its treasury, agreed to spend it in

buying a plant; and the Light Co. owned the plant. All the right that Leon had in the premises was merely to compel the Light Co. to expend the money it had received from him, in a specific way, viz: on the exhibition.

(2) Again, it may be said that Leon was entitled to take the plant, after the Exposition was over, just as he would have been entitled to take the proceeds of the plant provided the Light Co. itself had then sold it. Let us examine this. Would Leon have been entitled to take the proceeds of the plant? In order to detect the falacy of this, let us suppose a case. Suppose that when the Paris Exposition closed, the Light Co. had been fortunate enough to find a customer to whom it sold the plant for say 500,000 francs, and suppose the Light Co. had the money in its treasury. Could Leon have claimed that money under the contract? The plant, of course, had belonged to somebody who had a legal title to it, and that party, whoever he was, would have been entitled to these 500,000 francs. Would Leon have been entitled to that money? Most certainly not. Not only does the contract nowhere provide that the title to the plant was to pass to Leon, thereby possibly enabling him to reimburse himself out of the proceeds derived from such a possible sale of it; but Leon's sole right to be reimbursed is limited by the contract to only two circumstances, in either one of which, and in those events only, he was to be reimbursed.

These two circumstances, provided by the contract, where-  
in Leon was to be reimbursed are as follows: (1) In case the Light

proved to be a failure, and (2) In case Leon formed a Paris Company. Leon's right to have his money repaid was limited to these two cases. He has therefore no right, under the contract, to be reimbursed under the present existing circumstances, namely, the success of the Light, but his failure to form a Paris Company.

It seems, therefore, to be clearly established by the above reasoning that if the Light Co., having sold the plant, had the proceeds in its treasury, Leon could not have taken title, under the contract, to the money. This is so not only because the contract did not give him title to the plant, but also because he was not entitled to be reimbursed his outlay in the event that actually happened, namely, the success of the light but his failure to form the Paris company within the nine months.

(3) But Leon may possibly claim the right to sell the plant and take the proceeds, as matter of equity and not of contract, on the ground that the money furnished by him was actually put into the plant. That is to say, he may choose to utterly ignore his legal status under the contract, and to claim that in equity he is entitled to what the plant brought. Even if the contract were thus set aside, and the matter were adjusted on a sort of equitable basis, even then Leon would not be entitled to the proceeds of the plant! Who paid for the plant? The total cost was over \$50,000, of which Leon paid less than three fifths, and the Light Company paid the rest. Surely, even if the contract is to be set aside and equity is to prevail, Leon is not entitled to all the proceeds. Yet this is just what Leon has done. Although he paid for less than three fifths of the expense, he has

taken the entire proceeds and given the Light Company, who paid for more than two fifths, nothing.

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WHAT THE LIGHT COMPANY CLAIMS. In view of what is above stated, the Light Co. feels justified in making the following claims against the Cie. Continentale:

(1) The Cie. Continentale has appropriated to its own use the property of the Light Co., without their knowledge or consent, and without paying them anything for it. That property is the Exposition plant. The Light Co. asks that this entire property be restored to its rightful owner, the Light Co., or that the entire value of it be paid to the Light Co. in money. The fact that the appraised value of the plant has been already paid to Leon is something the Light Co. has nothing to do with. That is a question to be adjusted between the Cie. Continentale and M. Leon. What the Light Co. asks for is either its property or the value of it in money, and it asks this of the Cie Continentale.

(2) If the Light Co. is rightly informed, the Cie Continentale has repaid to M. Leon all the money he advanced on account of the Paris Exposition, including the 150,000 francs furnished to the Light Co. If that is so, that is to say if the Cie. Continentale has taken upon itself to pay M. Leon's outlay in connection with the Paris Exposition, the Light Co. asks to have its outlay also repaid. In other words, if M. Leon has been made

good as regards what the Edison display cost him, the Light Co. asks that it may also be made good. Seemingly there is no fair ground for discriminating between M. Leon and the Light Co. in this regard, and the Light Co. fails to see any reason why the expenses of one should be paid and not those of the other.

(3) Referring to the two preceding paragraphs, the Light Co. claims from the Cie. Continentale the sum of \$21,261.65. The total expenditure touching the exhibition plant was \$51,261.65, of which M. Leon paid \$30,000, and the Light Co. paid the balance. Full details of all these expenditures have heretofore been handed the Cie. Continentale, and also furnished to Mr. Bailey, in a letter dated September 15, 1882. The following is a brief summary of the account:

1,000 Light Dynamo Account.....	\$14,141.30
Edison Electric Light Co's bill for small Dynamos.	3,150.00
Mr. Edison's bill for boiler, lamps, fixtures, electrical supplies, cash disbursements &c.....	33,970.35
Total Exposition Disbursements.....	\$51,261.65
Received from M. Leon.....	\$30,000.00
Present unpaid Claim of Light Co.....	\$21,261.65

CONCLUSION. The Light Co. has endeavored to set forth above, calmly and fairly, the grounds of its claims against the

Cie. Continentale. If there is any error in this statement, either as matter of fact, or law, or argument, the Light Co. will be glad to have it pointed out; but otherwise, it feels that the claim should be promptly and fully allowed.

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Office of the  
Edison Electric Light Co.  
of Europe, Limited,  
No 65 Fifth Avenue,  
New York City,



Second Vice President.

September 14th. 1883.



WORKS:  
CHICAGO, ILLS.,  
—AND—  
URBANA, OHIO.

W. H. CHADDOCK,  
General Agent.

GENERAL AGENT'S OFFICE,  
United States Rolling Stock Company,

No. 210 La Salle Street,

Room 21,

CHICAGO, ILL.,

Sept. 21<sup>st</sup> 1893

Dear Mr. Edison,

I am in receipt of your  
letter of 14<sup>th</sup> inst and I enclose  
only signed the one which is to  
empower you to treat with both  
agencies on the basis mentioned  
in your communication.

Hoping that this matter  
will come to a satisfactory issue  
I leave it entirely to your  
hands.

The general nature of the  
plans of the United Light &  
Sparace of which you are the  
president.

For your information and for  
our shared with regard to business  
concerns. Hoping up the  
fact has remained down and  
ful concerns as to its future.  
Sincerely yours  
The Edison & DeWitt

(3)

MEMORANDA ON THE PROPOSED INTERNATIONAL EDISON COMPANY.

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TERRITORY AND PATENTS. This proposed company is to take the Edison patents for light and motive power for all the countries in Europe, except Portugal, Sweden, Norway, and the United Kingdom of Great Britain and Ireland. Both Mr Edison and the European Company are to agree not to exploit his inventions in any of the countries of Europe, whether the laws provide for patents or not. Thus the new company takes Switzerland, Turkey in Europe, Greece, and several other countries not belonging to the Edison Electric Light Company of Europe, Limited. It would appear that as regards these additional countries, MR Edison's personal consent must be secured, and that of such other parties as he may have committed himself to.

The patents and inventions referred to appear to be limited to light and motive power, although, it should be noted, the European Co's contract with Mr Edison also includes heat. Apparently the International Co. has overlooked heat.

The present contract between the European Company and Mr. Edison also provides that he is to give them his inventions only until January 12th: 1886, but this limitation is apparently disregarded by the International Company, it evidently being their intention to have all future said inventions of Mr. Edison without limit as to time.

CAPITAL. The capital is 30,000,000 francs, in 60,000 shares of 500 francs each, all of which is to be subscribed and 50 per cent of which is to be paid up, before the company is constituted. The privilege of subscribing to this original capitalization is allotted as follows:

(1) The right to subscribe to at least one quarter is to be given to the present stockholders of the three Edison companies in Paris. That would dispose of subscriptions amounting to say 7,500,000 francs.

(2) The entire property, contracts and business of the three existing French companies is to be transferred, at cost price to the International Company, the French companies receiving in payment shares of the International. These properties amount to the following sums:

Societe Industrielle.....	1,850,000 francs .
Compagnie Continentale.....	304,000 "
Societe Electrique.....	296,000 "
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Total.	2,518,000 francs.

It does not appear whether stock for an equal amount, fully paid, is to be transferred, or stock for double the amount, half paid. Assuming that stock fully paid will be issued, this would dispose of say 2,500,000 francs additional subscriptions.

(3) After deducting the 10,000,000 francs mentioned above, the right to subscribe for the remaining subscriptions, amounting to 20,000,000 francs, is to be given to a syndicate of bankers to be made up in the principal countries in Europe. The

shares are to be printed in the German, English, French and Dutch languages and currency, with possible quotations, at once, on the London, Paris, Berlin and Amsterdam Exchanges.

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FUTURE INCREASES OF CAPITAL. The capital may be augmented at any time on the recommendation of the Directors, approved at a general meeting of the stockholders. Preference for subscriptions to increased capital is reserved as follows:

(1) One quarter to the subscribers, or their assigns, of the shares constituting the first capital pro rata.

(2) One quarter to the Directors in office when the capital is increased, to allow them to provide "for the interests of the service". Apparently this right is a trust which the Directors are to exercise for the benefit of the company, and not as a personal perquisite.

(3) The remaining one half to the stockholders at the date of increase, pro rata.

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PROFITS. The net receipts, after deducting expenses, are to constitute the profits. From these profits there is to be taken 5 per cent for legal reserve. After deducting this 5 per cent, the remaining 95 per cent of the net product, to be considered net profits, is to be distributed as follows:

(1) The shareholders are to be paid a dividend of 6 per cent. It does not appear whether this dividend is always to be paid on the nominal or par value of the shares, or only propor-

tionately on the installments paid, if all the stock is not fully paid at the time of increase.

(2) Eight per centum of the net profits is to be given to the Council of Administration.

(3) Forty per cent of the net profits is to be given to the European Company and Mr. Edison.

(4) The remainder is to be used for a supplementary dividend to the shareholders.

These proportions are to be invariable, whatever may be the future augmentations of the capital. Founders shares are to be issued to the European Company and Mr. Edison, to represent their 40 per cent of the net profits, the same to be assignable and to be disposed of by them according to their pleasure.

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ROYALTY. There is to be paid to the European Company and Mr. Edison, a royalty of 25 centimes for every lamp manufactured, employed or sold by the Company or by its licensees. Apparently it is not the intention that this royalty shall belong to the parts of founder, mentioned above. Evidently it is to be a separate profit accruing directly and solely to the European company and Mr. Edison, or their assigns, without reference to the parts of founder and without any participation on the part of Messrs. Puskas & Bailey, M. Porgos, M. Leon, or any one else who may possibly have a percentage in the Light Co's parts of founder.

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PARTS OF FOUNDER AND PROFITS. Mr. Bailey states that the

parts of founder to be issued to the European Company to represent its 40 per cent of the profits are to be subject to the same divisions and percentages as the present founders shares. What he probably means by this is that the European Company is to recognize Messrs. Puskas & Bailey, M. Leon, and Messrs. Porges and Leon, as entitled to the same percentage in these new parts of founder that they had in the old ones. The division of the old founders shares was as follows:

Compagnie Continentale. The European Company had eight thousand parts of founder of which it gave one tenth (800 shares) to Messrs. Porges and Leon; also 70 shares to M. Leon; and out of the remaining 7130 shares, 5 per centum, 356 shares, were given to Messrs. Puskas and Bailey, leaving 6674 for the European Company, which are now in its treasury in New York City.

Societe Industrielle. The European Company had three thousand parts of founder of which it gave one quarter, 750 shares, to Porges and Leon, and 5 per centum of the remainder, 112 shares, to Puskas and Bailey, leaving 2138 parts of founder, for the European Company, which are now in its treasury here.

Societe Electrique. The European Company had three thousand parts of founder, of which it gave one sixth, 500 shares, to Porges and Leon, and five per cent of the remainder, 125 shares, to Puskas and Bailey, leaving 2375 parts of founder for the European Company, which are now in its treasury here.

It thus appears that in the case of the three companies now existing, a different division was made for each company. Ac-

ordingly, if it is proposed to pay a percentage to the same parties out of the founders shares of the new company, the question will arise which basis of division shall prevail? Probably the proper basis, in case the same percentages are again to be allowed, would be the division made in the case of the Compagnie Continentale. Should that division be made, the profits accruing to the European Company, after making the division, would be  $33 \frac{97}{100}$  of the net profits.

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COMPARISON BETWEEN PRESENT AND FUTURE PERCENTAGE OF

PROFITS. How does the above proposed share of profits in the International Company,  $33 \frac{97}{100}$  of the net profits, compare with the European Co's present share of profits in the existing Paris Companies?

Before this question can be answered certain details affecting the comparison must be noted. For instance, in the case of two of the French companies the entire capital stock is to be repaid out of the first profits, while as regards the third, the Manufacturing Company, the capital is to be repaid by installments out of the profits, of which one tenth is to be set aside for that purpose out of each dividend. Now in the case of the proposed International Company, there is no provision for repayment of capital whatever. As regards the legal reserve of 5 per centum, it is the same in all the companies, so there is no difference there. As regards compensation to Directors, they are now paid in the three existing French companies, consequently the proposal to pay

them in the International company would make no great difference, although they are evidently to be better paid in the new company. With reference to the proposed 6 per cent preferred dividend in the International Company, there is no preferred dividend in two of the French companies, but in one, the Manufacturing Company, there is a preferred dividend of 6 per centum. These details are important and must be considered in making a comparison of profits.

To compare the European Co's share of profits in the Compagnie Continentale with its proposed share in the International Co., let us make the comparison without reference to the fact that in the first named company the capital is to be repaid before profits are divided. Aside from that fact, the European Co's percentage of profits in the Compagnie Continentale is 80 per cent, whereas it is to be only 40 per cent in the International company. Were the same division of percentage to be allowed to Messrs. Puskas and Bailey and others above named in the International Company as have <sup>been</sup> already allowed, the percentage of profits ultimately coming to the European Company would be  $33 \frac{87}{100}$ , as against  $67 \frac{74}{100}$  in the Compagnie Continentale, in other words just one half as much. But it must be remembered that the European Company is to have a royalty on every lamp, which is an additional profit, their being no royalty whatever paid under the existing arrangement with the three French companies. Moreover, the entire business now done by the existing three French companies, namely central station, isolated and manufacturing, will all be done by the new company, consequently a percentage in the profits of that company



means a share in the profits of all three branches of the business.

At present the European Company is entitled to receive, after allowing for all percentages and divisions, and after the capital shall have been repaid as stated above,  $67 \frac{74}{100}$  of the profits of the Compagnie Continentale;  $35 \frac{525}{1000}$  per cent of the profits of the Manufacturing Company; and  $47 \frac{2}{100}$  per cent of the profits of the Isolated Company. Averaging these, the percentage and profits in the case of the three existing French companies, ultimately coming to the European Co., is  $50 \frac{24}{100}$  per cent, or a little over one half whereas the proposed percentage coming to the European Co. from the International Company, is  $33 \frac{87}{100}$  per cent.

NOTE. Whatever percentage, if any, may have to be paid Mr. Edison, out of what the European Co. gets, as compensation, first, for contributing his inventions for a longer period than until January 12th. 1883, and second, for the additional territory in Europe not now belonging to the European Company, would have to be deducted from the above.

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PROFITS ALREADY EARNED. In considering whether the European Co. had better consent to the formation of a new company, the question naturally arises whether the business of the three existing companies has thus far proved profitable? Balance sheets have been received here from all three companies showing the financial condition of each up to June 30th. 1883. The condition of these companies on that date was as follows:

COMPAGNIE CONTINENTALE. This company has always done business at a loss. The balance sheet of December 31st., 1882, shows that up to that date the company had done business at a net loss of 327,995 francs. The balance sheet of June 30th. 1883 shows a large receipt in cash from the German company for its license, namely, 255,741 francs; but notwithstanding this revenue and certain other small profits, the business from the formation of the company up to June 30th. 1883, shows a net loss of 211,752 francs. The cash in bank, June 30th. was 301,933 francs. The amount invested in isolated plants in various parts of Europe, was 396,402 francs, the largest of these installations, the Brun Theatre, being carried on the books of the company at 188,648 francs. The balance sheets show that if the company had gone into liquidation at the date of the last report, June 30th. there would have been a large deficit, and the stockholders could not have received back the full face of their investments. The capital is one million francs.

SOCIETE ELECTRIQUE, OR ISOLATED COMPANY. This company made a profit up to December 31st. 1882, of 15,009 francs, and from December to June 30th. 1883, 136,290 francs, showing an aggregate net profit, from the start, of 151,299 francs. There was in bank, June 30th., 166,738 francs. The investment in dynamos and material was 440,500 francs. Apparently this company has a small surplus. The capital is one million francs.

SOCIETE INDUSTRIELLE, OR MANUFACTURING COMPANY. This company appear to have done business at a small profit. Prior to

December 31st. 1882, the business was evidently done at a loss, but since that date, and especially during the last months, a considerable profit has been ~~made~~ realized, which Mr. Bailey estimates at 150,000 francs. Taking the business of this company from its start until June 30th. 1883, it has made a net profit of 50,788 francs, according to the balance sheets. It appears that this company is now well established, the manufacturing is successfully and economically conducted, and the prospects are good for a largely increased profit in the immediate future.

To sum up the profit and loss account of the three companies from the time they started until June 30th. 1883, the result shows that the aggregate business has been done at a slight loss? The exact figures are as follows:

	Profit.	Loss.
Compagnie Continentale		211,752
Societe Electrique	151,298	
Societe Industrielle.	<u>56,787</u>	
	208,085	<u>211,752</u>

NOTE. The Compagnie Continentale and the Societe Electrique have jointly sold 287 dynamos. This is a large business. All of these dynamos appear to be giving entire satisfaction. Unfortunately, this business has thus far not been done at a profit, probably for the reason that the main object has been to get the business started and well introduced. That has evidently been accomplished in a most successful manner, and there can be no doubt that the business in the future will prove to be both large and profitable.

REASONS FOR FORMING THE NEW COMPANY. This paper is not meant to be argumentative on the question of the new company, but merely to present figures and facts. There are, however, certain considerations touching the question which may be presented, otherwise the paper might be considered incomplete. They are as follows:

(1) The possible business in Europe is enormous, and more money is required to develop it. Mr. Bailey states that it is impossible to secure this money by means of local companies, as at first intended. How far he is correct it is hard to say, but our experience in the United States shows that the business must be well established on a paying basis, which has not yet been done in Europe, before local capital can readily be had. Mr. Bailey is therefore probably right in saying that the quickest and easiest way to develop the business in Europe is to have the capital furnished by capitalists at money centres, and that the best way to do this is to enlist the capitalists in one large company. But, on the other hand, we must not forget that the central station business is being rapidly established in this country, and that as soon as dividends are earned here, they will tend to expedite the formation of local companies in Europe. Mr. Bailey's plan may be the quicker and easier one, but there can be no doubt, that the progress now being made in this country will in time make itself felt abroad.

(2) The French companies appear to have gone on the prin

ciple of getting plants introduced everywhere, no matter whether they made money or not. It is too late now to discuss whether that was the best business principle. Their money has been spent in starting the business, and to avail themselves of the prestige thus occasioned, additional capital is undoubtedly needed.

(3) New men, new blood, and new interests will be brought in. This is important. The capitalists who start the business may get tired and worn out, and the influx of new blood and fresh capital will be an important item in the rapid and successful development of the business on a large scale. Moreover, a combination of financial interests, each with a strong local backing, would give the business great prestige.

QUESTIONS FOR MR. BAILEY TO ANSWER. The following questions have been sent to Mr. Bailey, and his answers will throw light on several points which at present are not entirely clear:

(1) If the new company proposes to take more territory than now belong to the Compagnie Continentale, how will Mr. Edison and the owners of that territory be compensated?

(2) For how long a period would the new company expect to secure Mr. Edison's inventions? The present company will have them, under present contract, only until January 12th, 1886. Apparently the new company expects them for a longer period. If so, how do they expect to compensate Mr. Edison?

(3) When the new company buys out the business of the three existing companies, paying for the same at cost, as is pro-

posed, will the stock in the new company be issued at par, fully paid. In that case, how would that stock stand as compared with the balance of the stock, on which only 50 per cent will have been paid in?

(4) Is the right which the Directors have to subscribe to one quarter of future increases of capital, a personal perquisite, or is it a trust, to be exercised for the benefit of the company.

(6) Is the 6 per cent dividend to be paid per share or per dollar? That is to say is the dividend to be 6 per centum on the par value of a share, or on the amount paid in?

(7) Is it well understood that the lamp royalty is to be paid to the European Company here without any additional divisions or percentages to any one in Europe, whether to Puskas & Bailey, Porges, Leon, or any one else?

(8) Will the European Company be expected to contribute any percentage or division of its founders shares to any one in Europe, say to Messrs. Puskas & Bailey, Porges and Leon or to any one else? If so, how much?

(9) If the three French companies sell out their business to the new company for stock, what will they do with it. Will they carry it in the treasury or divide it up, among the stockholders, or what? If any surplus remains, after paying back the subscribers at par, franc for franc, what will be done with it?

(10) Some cash ought to be paid to the European Co. here. Mr. Bailey states that he had fully appreciated the import-

ance of such a cash payment, but that he thinks it impossible to secure it. It is doubtful whether the European Company would in any event consent to the formation of the proposed new company, unless at least a small amount of cash, if not more than \$100,000, were paid to it.

(11) If the new company is formed, what will have been given to the European Company and what will they have in their treasury to show for the business thus far done in Europe. It is true they will have the new contract with the International Company, but will they have anything else. Will there be no dividends, surplus, cash payment, or anything else for them to report to their stockholders as the fruits or profits of the two years business.

(12) WILL the Compagnie Continentale recognize and pay the claim against it, as heretofore made up and presented, on account of the Expense incurred by the European Company in connection with the Paris Exposition?

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CONCLUSION. It is hoped that the above statement is sufficiently full to enable the directors to intelligently consider the question of the proposed new company. Any one desiring further information, should read Mr. Bailey's printed "Notes", also a copy of the Articles of Association of the International Company, also a lengthy letter from Mr. Bailey dated September 3rd 1883, advocating the case of the new company, all of which can be seen at the office of the CompanyL

1853-10-05

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A handwritten signature in cursive script, appearing to read "S. A. Lalor", is written above a horizontal line.

Second Vice President.

Edison Electric Light Company  
of Europe, Limited.

No. 65 Fifth Avenue.

October 5th, 1883.



1883-10-27

The Edison Electric Light Company  
of Europe Limited

65 Fifth Avenue, New York, October 27th. 1883

Dear Sir:

A special meeting of the Directors of the Edison Electric Light Company of Europe, Limited, will be held at the office of Messrs. R. L. Cutting Jr. & Co. No. 19 William Street, New York City, on Tuesday, October 30th., at 1 o'clock, P. M., for the purpose of authorizing the sale of certain Bonds of the Company.

Yours truly,



Second Vice President.

1

New York, October 30, 1893.

The Edison Electric Light Co. of Europe, Limited,  
65 Fifth Ave., N. Y. City.

Gentlemen:-

Please take notice that I hereby relinquish and waive any lien which I may have on Debenture Bonds of your Company, Nos. 187, 188, 189, 194, 195, 196, 197, 198, 199, 200, as security for the unpaid promissory note of your Company, dated May 1st, 1893, for the payment of \$1100 in sixty days after date for my order.

Yours truly,

*R. L. Country*

RECORDED  
INDEXED  
OCT 31 1893  
LIBRARY OF THE  
EDISON ELECTRIC LIGHT CO. OF EUROPE, LIMITED  
65 FIFTH AVENUE, N. Y. CITY

New York, October 30, 1893.

The Edison Electric Light Co. of Europe, Limited,

65 Fifth Ave., N. Y. City.

Gentlemen:-

Please take notice that I hereby relinquish and waive any lien which I may have on Debenture Bonds of your Company, Nos. 187, 188, 189, 194, 195, 196, 197, 198, 199, 200, as security for the unpaid promissory note of your Company, dated May 1st. 1893, for the payment of \$600 in sixty days after date to my order.

Yours truly,

*Alfred W. Root*

European Co.

We have sold 2000  
founders shares & realized  
\$20000 from which we have  
bought out about 60%  
of the bonds & settled some  
of the bad credits - We  
have another 1000 founders  
to sell but as it is not  
pressing to sell now we  
shall wait a little  
Want you to resign as Pres.  
~~so that~~ I go in temporarily  
We don't want Forte there

\$<sup>2</sup>  
200 000 stock Light Co  
to have the right to take  
it at par any time in  
the year - The  
\$200 000 stock of M W to  
be provided by \$100 000  
subscription to Treasury  
& the 2<sup>nd</sup> \$100 000 to be  
made (if Light Co exercises  
option) by increase of  
Capital - No dividend  
to be made by M W during  
loan

3

If you don't want to do this  
we might sell the stock  
that we were going to divide  
on the same basis as Carter  
proposes. This will keep other people  
out if you want to.

I think however it ~~would~~ would  
be advisable to have the Light  
Co as a stockholder to a  
considerable extent & it  
in preference to any one else

---

THOMAS A. EDISON,  
NO. 65 FIFTH AVENUE.

(1883)  
CABLE ADDRESS—EDISON, NEW YORK

Sheet No 1 (1883)

Edison Electric Light Co of Europe

NEW YORK 188

Original Issue 10,000 Shares

Thos. Puskas	1	2
Chatchelon	169	2
J de Puskas	500	2
Wagmann	2	2

10,674

Transfers:-

Schae Laughlin	150
M N Ince	10
Mary E Carman	10
Chas P Leave	10
Sam D Mott	10
J A Wilson	475
A E Griffin	75
Chas Balthusel	10
H. Coddington	10
John Bunesi	20
Alfred Haydt	10
Puskas Supportas	10
Chas S Clarke	30
Ch Jabbri	1690
Chas Puskas	10
Dwain A Jehl	5
Thos. Puskas	500

Forward 2975

THOMAS A. EDISON,  
No. 65 FIFTH AVENUE.

CABLE ADDRESS—EDISON, NEW YORK

Sheet No 2

NEW YORK \_\_\_\_\_ 188

Transfers:

Inward

Chas. Rollon	
W. H. Banker	
W. S. Perry	
W. A. B. Wilbur	
J. R. Wilbur	
Otha A. Moses	
J. B. Eaton	
Pushas' Paporas	
J. F. Barker	
W. L. Jacques	
W. J. Berry	
A. C. Hunt	
W. A. Gildersleeve	
W. S. Perry	

2975
5
1000
100
10
10
50
50
100
10
25
75
5
95
100
500

As per Sheet  
No 1 -  
Original base  
10,674

5110

5,564

**1883. Electric Light - Edison Lamp Company - General (D-83-032)**

This folder contains correspondence, agreements, and other documents relating to the business of the Edison Lamp Company. Most of the correspondence is by Francis R. Upton, general manager and treasurer of the company. Also included is a 21-page memorandum by Sherburne B. Eaton, dated January 19, 1883, concerning a new contract involving the Edison Electric Light Company, the Edison Lamp Company, Edison, and others.

Approximately 80 percent of the documents have been filmed. The following categories of documents have not been filmed: routine correspondence regarding orders and shipments of lamps; receipts; trial balances and other routine financial documents; duplicate copies of selected documents.



1883-01-02

# CORNING Glass Works,

A. H. JONES, President

68 E. W. St.

Wm. Wells given CORNING. Jan'y 2<sup>nd</sup> 1883

16 - J. W. A. Collins

65. Fifth Ave N. Y.

Dear Sir

At the request of Mr. Francis R. Upton,  
we send you the following list of prices  
charged for packages.

Tires for Bells		\$1.50	each
Bambs "	"	.35	"
Large Boxes "	Subl	1.25	"
Med "	"	1.00	"
Small "	"	.75	"
Bambs "	"	.35	"

Very truly yours  
H. P. Sinclair Secy

Monthly Statement  
THE EDISON LAMP CO.,

East Newark, N. J. Jan 2<sup>nd</sup> 1883

Thomas A. Edison Esq.

F. R. Upton Advance 27021.62

E. A. Ill. Co. " 1879.20

Bills due by us 37103.32

\$ 66004.14

Bills due to us \$ 14010.82

Lamps on hand Dec 1<sup>st</sup> 59219

" made in " 42062

101251

Home sales for month 21599

Foreign " " " 11820 33719

67562

Lamps on hand Jan 2<sup>nd</sup> 1883

Home orders for month 20036

Foreign " " " 18300 30036

Yours truly  
Edison Lamp Co.

Statement  
THE EDISON LAMP CO.,

East Newark, N. J., \_\_\_\_\_ 188

Cost of 245,000 Lamps manufactured  
from July 1st 1882 to January 1st 1883

Material on hand July 1st	5576.00
" " for six months	22701.19
Labour " " "	45489.58
Interest on Capital	4890.34
" " Mortgage	900.00
	<hr/>
	79557.11
Material on hand Jan 1st 1883	15892.85
	<hr/>
	63664.26

Cost per Lamp \$245

*Statement*  
 THE EDISON LAMP CO.,

East Newark, N. J., ..... 188

From July 1<sup>st</sup> 1882 to January 1<sup>st</sup> 1883

Lamps on hand July 1 <sup>st</sup> 82	57449	
manuf'd to Jan 1 <sup>st</sup> 83	147511	
	204960	
Add High Volt Lamps	5848	
	210808	

Lamps ship'd to foreign	65038	
" " " " " "	77768	
	142746	
Lamps on hand Jan 1 <sup>st</sup> 1883	67562	

Cash received for  
 Lamps sold \$56026.00

THE EDISON LAMP CO.,

East Newark, N. J. Jan 3 1883

~~Proportionable rate of breakage in  
any lamp  
broken~~

Percent of  
lamps broken  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100

10  
20  
30  
40  
50  
60  
70  
80  
90  
100

Taken from etc  
of lamps burning  
at 16 and 20 candles.

~~...~~  
95  
1026  
1060  
1190  
1424

EDISON LAMP COMPANY

34  
1883-01-03

EAST NEWARK

Jan 3, 1883

Wilton

Dear Mrs. Edison:

Mr. J. Loren  
has been carrying \$15.00 a  
week with us.

His understanding is that  
he is to have this amount  
and a commutation ticket  
to Newark.

Francis R. Wilton

OK Edison  
glass blower at Lebrade  
Chgo to Edison Light

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. LYTON,  
TREASURER.

EAST RUTHERFORD, N. J., Jan 4, 1883

Dear Mr. Edison:

The Lamp Co. are about 25,000 lamps behind its orders. As soon as the Gaslight Co. place their order for 50,000 lamps we can see daylight, and if we can have 40 cts. for lamps and the money due us we shall be able to run one more row in the pump room without danger of incurring increased liabilities.

It is exceedingly important that we have the five cents soon as they are now putting in very large orders for the U.S.

The contract that I recall showed me I acknowledge to be from as protecting the Lamp Co. from the light Co. breaking the contract.

From all I can learn regarding

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. LLOYD,  
TREASURER.

L. A. E. 2

EAST NEWARK,

188

Messrs. Eaton and Mr. Lawrence  
they do not intend to give us  
any contract but one that they  
can drive through in the future.

Taking this view I assent to  
the present version, in order that  
there may be a settlement.

If it were my private matter,  
I would notify the Light Co. that  
until we had a contract to pro-  
tect us that we should charge  
50 cts. for lamps, which is, as  
we are now manufacturing,  
only a fair price, giving us  
a reasonable profit. As it is  
now, we are giving them about  
ten cents on each lamp, with  
every disposition shown on the  
part of those directing the policy  
of the company to take all  
the profit when any one to



EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. OFFICE,  
TREASURER.

J. A. E. 3  
EAST NEWARK, ..... 188

seen.

For example The contract to give us only fair rights has now been hanging for a year and a half and the prospects are that it will hang indefinitely, for Mr. Eaton will require even more time than Mr. Harvey. — The leading directors of the Edison Co. say that they wish to draw all companies into one grand company. That means that they will take the Lamp Factory and all its rights.

Now that we have risked \$200,000 in this place and pointed out the way that it can be made profitable they wish to reap the profits.

I am not naturally suspicious but in this case I

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANK A. SPENCER,  
TREASURER.

EAST NEWARK,

188

J. H. E. 4

think that Mr. Eaton and  
Mr. Harvey are leading us a  
wild goose chase and that  
they never intend to tie the  
Cus hands to any one place  
to get lamps.

I am looking to the future  
in wanting the contract made  
binding for some day it  
will be exceedingly profitable.

For the present we are making  
asses of ourselves to give a worthless  
cooperation ten cents on every  
lamp out of our own pockets  
with no guarantee for the  
future, not even a promise to  
use the apparatus we have for  
this special purpose.

Yours Truly

Francis R. Wpton.

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PATENT.  
FRANCIS R. WELTON,  
TRADE MARK.

15  
EAST WARK, JUN. 4, 1888

Dear Sir:

We owe Benjamin D. Co. \$1917.75 today.

The greater portion of this has been standing four months.

I return letter from Bateh. Co. Mrs. Wpton had taken care of it.

The London lamps are now all shipped. The Manchester lamps will be ready I hope by end of next week.

I have thought that they are trying to work us for 40 cts. by ordering these lamps, which they may use for 20 cts.

Yours Truly Francis R. Wpton

1917.07

~~9.8850~~

1917.07

~~8.9753~~

~~8.90~~

103562

~~9.4241~~

" 0725

~~9.060~~

~~1955.97~~

~~198528~~

10.86

7  
072.52

1917.07

19.86

09.86 6

1936.93

~~7.4~~  
~~06.909~~

*[Faint signature]*

3  
6  
2

29

**CORNING GLASS WORKS,**

A. HOUGHTON, JR.

CORNING, N.Y.

*Corning Glass Works*  
Jan 6 1883

M<sup>r</sup> Tho<sup>s</sup>. A. Edison

Dear Sir

In reply to your esteemed favor of 4<sup>th</sup> inst, the prices given in our letter of 2<sup>nd</sup> inst for packages, were fixed by the association.

It is named as follows:

Flint & Lime Glass Manufacturers Association.

Very truly yours  
H. P. Sinclair Secy

Wrote thanking them  
for the information

1883-01-13

## THE EDISON LAMP CO.,

East Newark, N. J. Jan 13<sup>th</sup> 1883

Paul Omsull Esq.

Dear Sir-


Having find a memorandum of  
Mr T. A. Edison's acc- account

1881 Jan 26	acc.	12000.00	1881 May	Balance	41984.12
Feb 22	"	9600.00	" 24	check	5250.00
Apr 12	"	6375.00	" 25	"	3000.00
May 17	"	9375.00	June 5 <sup>th</sup>	"	1125.00
" 19	"	14009.13	" 8	"	.01
July 8	"	7500.00	July 15	"	7500.00
Aug 16	"	7500.00	Aug 20	"	1000.00
Oct 1	"	7500.00	" 26	"	1200.00
Nov 5	"	7500.00	Sept 2	"	1200.00
Dec 20	"	7000.00	" 9	"	2000.00
1882 Mar 8	"	7000.00	" 23	"	1500.00
June 27	"	25125.00	" 30	"	2000.00
		120484.13	Oct 8	"	900.00
Dec 15 Appt		1833.30	" 11	"	4500.00
		\$122317.43	" 24	"	600.00
			Nov 28	"	600.00
			" 9	"	6410.00
					80569.15

1883-01-13

## THE EDISON LAMP CO.,

East Newark, N. J., 188

  
 Forward

# 122,317.43

 ler  
 Forward

		50769.13
1881	Dec 9	cash 590.00
"	" 17	" 1000.00
"	" 19	" 720.00
"	" 28	" 1200.00
1882	Jan 12	" 1000.00
"	" 28	" 425.00
	Feb 3	" 500.00
"	" 7	" 2000.00
	Apr 22	" 2000.00
"	" 29	Mr. Tolson 3765.34
	May 10	Cash 6000.00
"	" 29	" 389.66
	Aug 13	" 2000.00
"	" 14	" 2000.00
	Sept 1	" 1250.00
	Nov 7	" 6000.00
"	" 20	" 5000.00

Balances due us Jan 1st 83

121,609.13

708.30

# 122,317.43

1883-01-13

THE EDISON LAMP CO.,

East Newark, N. J., Jan 13<sup>TH</sup> 1883

Paul Inull Esq.

Dear Sir -

Herewith find a memorandum of Mr Chas Batchelors assessment account.

1881			1880		
Jan 26	Ass.	1500.00	Dec 18	Sumd.	1751.14
Feb. 22	"	1200.00	<sup>1881</sup> Jan 26	P.A.C.	1500.00
Apr 12	"	850.00	Feb 4	Check	1200.00
May 17	"	1250.00	" 16	"	850.00
" 19	Cap.	1751.14	July 9	"	1250.00
July 8	Ass.	1000.00	" 18	"	1000.00
Aug 16	"	1000.00	Sept 9	"	1000.00
Oct 1	"	1000.00	Oct 11	"	1000.00
Nov 5	"	1000.00	Nov 11	"	1000.00
Dec 20	"	1000.00	<sup>1882</sup> Jan 12	"	1000.00
<sup>1882</sup> Mich 8	"	1000.00	April 22	"	1000.00
June 27	"	3750.00	Sept 1	"	2750.00
		<u>\$ 16301.14</u>			<u>\$ 16301.14</u>

Yours truly  
Edison Lamp Co. D



EDISON LAMP COMPANY.

THOMAS A. EDISON  
PRESIDENT  
FRANCIS B. SPEER  
TREASURER

EAST NEWARK,

Jan. 15, 1883

Dear Mr. Edison:

The enclosed statements will show the state of our business since the start.

The great trouble is in the fact that we have been compelled to make lamps at a loss and to assume all experimental expenses. During the past six months we have spent as near as I can estimate between \$5000 to \$6000 experimenting, that has been included in the cost of lamps. Yet including this I can show that we have held our own in making lamps.

At present we are having very heavy demands made on us for cash. Outside of any sales of lamps we need \$5000

## EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. UPTON,  
TREASURER.

EAST NEWARK, \_\_\_\_\_ 188

to carry us through our June bills successfully.

If orders keep coming in we shall make both funds meet during the next six months.

Our cost sheets show the cost of lamps including all items such as experimenting, depreciation, interest on capital, mortgage and loans, and material used.

July - avg	52.6 cts.
Sept.	75.
Oct.	47.
Nov.	39.4
Dec	36.8

Average cost for six months 44.2 cts.  
In Dec. and Nov. we made a very large number of lamps.

Yours Truly  
Francis R. Upton.

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANK B. UPTON,  
TREASURER.

11  
W. J. G. W.  
EAST NEWARK, June 17 1883

Dear Mr. Edison:

Maj. Eaton spoke to me today about leaving instructions that when Madamcroft came out with visitors he should be admitted to the Factory. I told him that you were the one to be consulted in the matter.

I wish you to make some definite arrangement with Maj. Eaton regarding this point and notify me of your decision. I see no objection to taking men that are outside of the technical part of the business through. Men like Barker hurt no more.

I sent you today the twisted carbons. I took them to my.

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. UFFORD,  
TREASURER.

EAST NEWARK, ..... 189

myself and gave them to  
Healer with special charge  
to be careful.

We are now looking for  
trouble in the state of the  
fibre when it is carbonizing  
whether it is dry or wet.

Also we are trying ~~various~~  
warming the mould before  
putting into the furnace. We  
are trying slow working pumps  
and ~~other arrangements~~ Howell  
and Saxelby working.

The 16 candle set have struck  
625 hours without one breaking.  
Money is awful tight!

(Yours Truly)  
Francis R. Ufford.

EDISON LAMP COMPANY.

EDISON,  
PRESIDENT.  
W. A. EDISON,  
TREASURER.

11  
W. A. EDISON  
EAST NEWARK, N. J., Jan. 18, 1883.

Dear Mr. Edison:

Financial Report  
1882

Regarding the  
use made of money this  
past year.

We have made about 200-  
000 lamps (two hundred thousand)  
and shipped about 180,000.

We have about \$75,000 worth  
more stock in process of man-  
ufacture than at the commencement  
of the year. Our loss in making  
these lamps taking the face of  
our books has been \$20,181.  
Less material saved it is  
\$12,681. This amount is  
less than we can account  
for directly in experimenting,  
that has been charged to  
Lamp Account

## EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. UPTON,  
TREASURER.

EAST NEWARK, ..... 188

During the past year there  
has been two assessments

March 8	10.000
June 27	<u>37.500</u>
	47.500
F. R. Upton	<u>27.021</u>
Cash	<u>74.521</u>

We show for this

Material in manufacture	7.500
East Newark payments	13.000
Machinery & Tools	20.000
Buildings and Fixtures	30.000
Paid Edison Ill. Co. advance	<u>5.621</u>
	73.121

Now if we can raise \$5,000  
over and above lamp sales  
it looks as if we could pull  
through, if we can get 40 cts.

If we get an advance from  
the Insulated Co. we only discount  
the future.

Yours Truly  
Francis R. Upton.

EDISON LAMP COMPANY

THOMAS A. EDISON,

PRESIDENT,

FRANCIS B. UPSON,

TREASURER.

1888-01-01

EAST NEWARK,

188

We have orders for

10000 Lamps @ \$1.50	15000.00
10000 " @ \$2.50	25000.00
50 " @ 500	250.00
50 " @ 2.50	125.00
3500 Green " - .50	1750.00
10000 Glas. - .40	4000.00
5000 " - .35	1750.00
6000 England - .50	3000.00
2000 Amsterdam - .50	1000.00
	<u>16625.00</u>

We are ordered by by June 20 order for

30000 Lamps @ 40 cts	12000.00
5000 " - 40 ..	2000.00
	<u>30000.00</u>

There are now burning

35000 Lamps in the U.S.
5000 " " England
20000 " " Lamps
3000 " " Lamps
1000 " " in the water
<u>64000</u>

There will require renewal

at least twice a year on an average  
128000 Lamps a year for renewals.

We have already shipped 243,314  
Lamps.

EDISON LAMP COMPANY

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. LIPSON,  
TREASURER.

EAST NEWARK, \_\_\_\_\_ 188

1883-01-01

Due	J. R. Winton	47.02662	
"	Edison Co.	<u>11.042.08</u>	
		38.068.70	38.068.70
Bills due Jan		12.000.00	
"	"	10.000.00	
"	March	<u>5.940.44</u>	
		27.940.44	27.940.44
			<u>66.009.14</u>

Consolidated Light Gas Co.	878.83	
Canning Glass Works	14980.67	
Patterson Bros.	767.38	
Chas. Burroughs	205.27	
A. B. & C. Co.	403.83	
J. Mackintosh & Co.	147.54	
Peter Hayden	121.30	
Cornwall & Co.	114.42	
J. Dixon & Conitt Co.	667.32	
Salemander Works	247.06	
Wm. Murray	107.57	
Yan Winkle Street Co.	124.63	
Louis A. Riley	309.17	51
J. Mustard	225.00	
J. E. Smith	205.72	
Chas. Pratt	580.74	
S. P. Backus	286.74	
D. L. W. R. R.	744.98	
Peter Bayle	292.97	
Morris Tadden & Co.	400.00	
Geo. Platt May Co.	2284.65	
Chas. Hall May Co.	<u>320.00</u>	24,440.31
Small Bills	51	3500.13
		<u>27,790.44</u>



1883-01-0

Since the start in 1880

There has been paid on by factories	163,011.41
By T. R. Weston	27,021.62
Lamp sales 1880-1881	13,175.29
" " Jan - June 1882	35,208.08
" " June 1882 - Jan 1883	46,021.44
Total cash handled	<u>294,437.84</u>
Liabilities	<u>38,982.52</u>
Total	333,420.36

Lamps sold	104,404.81
Assets	<u>145,482.23</u>
	249,877.64

Experiments, Expenses drawings	83,542.72
Loss on Building Weston's Machine	33,342.03
Expense training help	

\$75,000 of this will be refunded  
to the Lamp Co. by the Edison Light Co  
before they share in the profits, out  
of their hands, according to contract.

Lamp cost 1880	\$ 1.01
" " Jan to July 1882	.80
" " July 1882 to 1883	.445

January 19th, 1883. S. B. Eaton's memorandum on proposed  
Lamp Contract.

In making these memoranda I had before me the original lamp contract of March 8th, 1881, also Mr. Lowrey's first draft of the proposed amended contract, which I have marked with red lead pencil A. B., also Mr. Lowrey's second draft of said proposed amended contract, which I have marked with red lead pencil C. D.

FIRST. The old contract now in existence, is between the Light Company and Mr. Edison. The proposed new contract is between the Light Company, party of the first part; the Lamp Company, party of the second part; Mr. Edison, party of the third part; and Messrs. Batchelor, Johnson and Upton, parties of the fourth part.

The reasons for introducing these new parties appear further on in these memoranda. I see no objection, provided our Company is willing to allow the lamp factory to be organized as a corporation, instead of standing, as now, in Mr. Edison's name. He thinks a corporation will be more convenient, that additional capital can be more easily secured, and that in the event of deaths, the business will suffer less disturbance.

I think this change might, on the whole be allowed.

SECOND. It should be noted that this new contract cancels the old contract and that the rescission of the old contract takes effect retroactively, as of September 1st, 1882. Consequently, the increased price for lamps (40 cents), mentioned in this new contract, will date back to September 1st. This will work no hardship, because purchasers of lamps at the present price (35 cents), have been notified they might possibly have to pay this increased price, beginning September 1st, 1882.

I see no objection to the above retroactive effect.

THIRD. The second section of this new contract transfers the existing lamp contract, which is now with Mr Edison personally, to a corporation. I believe this corporation has not yet been formed, but that it will be formed under New Jersey laws as soon as the Light Company signifies its approval of this new contract.

This is a very important change. Under the old contract the Light Company has the personal liability of Mr Edison as a guarantee for faithful performances. Under the new, it will have the liability of a corporation, liable only to the extent of its capital (I have not the corporation laws of the State of New Jersey before me), and the Light Company has no means of knowing who in the future will be the stockholders of the said corporation.

Suppose the management of such new corporation were transferred to new and strange parties, what would then be the position of the Light Co? They would find themselves in the hands of strangers; the business of manufacturing lamps, which is the most vital part of all our operations, possibly in the hands of incapable or even hostile parties; and the entire business of the Light Co. and of its licensees everywhere, possibly paralyzed, if not destroyed. The Light Co. should be reluctant to accept this change, without adequate guarantees. Mr. Edison, however, gives good reasons why the change should be made.

I have suggested that this change be made. Mr. Edison and his present associates should put their stock in the proposed Lamp Co., in escrow, to be held there permanently during the continuance of this contract. Mr. Edison, however, objects to this and gives good reasons for his objection.

**FOURTH.** Under the old contract (second Section) the exclusive license granted to manufacture lamps was to continue only during the life of patents on Mr. Edison's inventions, and upon his alone. The new contract (fourth section) differs from this. It makes the contract continue not only for the life of Mr. Edison's patents, but also for the life of any patents of outside people which the Light Co. may come into possession of; and also the life of licenses under patents of outside people, which licenses the Light Co. may acquire.

Regarding this change, my first opinion was that the life of the contract should be limited to the life of the Edison patents, namely, those of Mr. Edison's own inventions. But there seems to be a good reason for allowing this change to be made. It is that the new contract provides that whenever the Lamp Co. takes a license from an outside party they must give the Light Co. the benefit of such license, and the right to a sub-license; and the Lamp Co. claim that if they are thus to give the Light Co. the benefit of their license, they are fairly entitled to a reciprocal favor, of similar nature from the Light Co.

FIFTH. The present price of the lamp (35 cents) is found in the third section of the existing contract. In the proposed new contract, the proposed price (40 cents) is found in the fifth section. I have compared these two sections and make the following comments.

(A) The old price for a lamp was not to exceed 35 cents. The New price is 40 cents.

The lamp is costing more than Mr. Edison anticipated, consequently the price should be increased to this reasonable extent. I approve of this reasonable increase.

(B) The existing contract (section third) required lamps to be furnished to the Light Co's licensees "within United States", at 35 cents. The new contract (section fifth) removes this territorial restriction, and provides that lamps shall be supplied at 40 cents, "to all licensees of the Light Co." As matters now stand, that would mean any licensee in either North

or South America.

This is a concession in favor of the Light Co.

(C) The existing contract (sections one and three) provides that the lamp thus sold for 35 cents is "the incandescent lamp now or from time to time used in connection with the Edison system". That is clear and easily understood. It means every incandescent lamp, without exception. *no indent, See old Contract* But the proposed new contract changes this and greatly narrows it. This change of course results from the experience and practical knowledge gained in actual business since the date of the old contract. What is the lamp, the price of which is to be 40 cents? The new contract defines it as follows, namely,

- (1) It shall be a standard lamp.
- (2) It shall not be of more than 16 candles power.
- (3) It shall not be more than 140 ohms resistance.

I have no objection to this change, provided the meaning of the word "standard" can be placed beyond dispute. To that end, I suggest that not only shall drawings, of the lamp be filed with the Light Co. as is provided for, but also that the new con-

tract be so amended as to provide that on the date the new contract is signed, six of the then standard lamps, referred to in the contract as standard, shall be deposited in some safe place, by the mutual consent of the Lamp Co. and the Light Co., for the purpose of showing, for all future time, what was meant by the word "standard." I am now informed that Mr. Edison consents to this.

(D) Under the existing contract, packing and boxing are included in the price, 35 cents. Under the new contract, the "cost of boxing and packing" are not included in the 40 cents, but are to be additional charge. Thus not only is the price of the lamp increased 5 cents, but boxing and packing are made an additional charge, to still further increase the price of the lamp. I think this change from the old contract should not be made. Let it stand as it is now. Let the round price, 40 cents, include packing and boxing.

I am now informed that Mr. Edison is willing to waive this claim for extra compensation for packing and boxing and is willing to have the round price include those charges.

(E) Under the new contract there is no charge for cartage to the railway station. In this respect, the new contract remains the same as the old one.

(F) The old contract provided that the price of lamps should be reduced whenever the improvements in manufacturing made a "reduction possible". The new contract changes this. Under the new contract this reduction is to be made, not whenever possi-

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4 - Profit sold at Lamp actual Cost

5 1/2	38	3 1/2	39	38 1/2
5 3/4	34			38 1/2
6	33	6 1/2	38	30 1/2
6 1/2	32	6 1/2	37	29
7	31	7	36	29
7 1/2	30	7 1/2	35	26 1/2
8	29	8	34	25
8 1/2	28	8 1/2	33	23 1/2
9	27	9	32	22
9 1/2	26	9 1/2	31	19
10	25	10	30	17
10 1/2	24	10 1/2	29	12
11	23	11	28	
11 1/2	22	11 1/2	27	
12	21	12	26	
12 1/2	20	12 1/2	25	

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ble, but whenever both parties consent to reduce. Under the old contract, the Light Co. pledged itself to make a reduction whenever possible. Under the new contract it declines to make any reduction unless it chooses to. That is to say, not only may a reduction be possible, and not only may the Light Company wish it to be made, still it will not be done unless the Light Co. chooses to agree to do it.

I think that inasmuch as a profit of 5 cents a lamp is secured to the Lamp Co. in any event, the question of a reduction of price in the lamp should not be a matter of "agreement". But under the new contract, the Lamp Co. is entitled to a profit of 5 cents a lamp and the profit beyond that is divided equally between the Lamp Co. and the Light Co. Now if the Light Co. is willing to sacrifice its interest in the profit, in order that the price of the lamp may be reduced, I think it ought to have the power to compel the Lamp Co. to make the same sacrifice. Hence I suggest that the Light Co. have power to compel the Lamp Co. to make such concession, provided, of course, the five cents or ratio profit of the Lamp Co. is not disturbed.

My criticism as above has been discussed with Mr. Edison. He thinks that the existing arrangement for profit is none too liberal; also that the Light Co. will have a greater interest in sacrificing this profit than the Lamp Co. will, so that practically the result will be that the Lamp Co.'s profit would be

limited to the exclusive profit; and he further thinks that if the Lamp Co. is not secured in this additional profit, which arises from reducing the cost of producing the lamp, the Lamp Co. will have no stimulus to reducing the cost of production, a matter which is very vital. In view of these arguments thus stated by Mr. Edison, my own opinion is that the new contract had better remain as proposed, and that the question of reduction should be a matter of mutual agreement.

(G) The new contract reserves to the Light Co. the right to charge more than 40 cents (or whatever the ratio selling price may be) for lamps sold to licensees and others. The profit thus derived is not to be divided with the Lamp Company, but the Light Co. gets it all. In this respect, the new contract corresponds with the existing contract, and is of course satisfactory to the Light Co.

(H) Regarding lamps of more than 16 candle power, and of higher resistance than 140 ohms, and of more than the "standard" economy, &c., the new contract provides that the prices shall be so fixed that the Lamp Co. will receive no greater ratio of profit than it reserves on the "standard" lamp, price 40 cents.

My reading of the New contract is to the effect that as regards these lamps which are outside of the present standard type, the price is to be fixed so as to secure to the Lamp Co. "exclu-

sively" a profit. But no profit is secured to the Light Co. I object to this. Let the new contract be so changed that, as regards these novel lamps, the Lamp Co. shall have its exclusive profit of five cents, or other ratio profit; but that as regards any profit in excess of such ratio profit; it shall be divided between the Lamp Company and the Light Company.

Mr. Lowrey, with whom I have discussed the above, states that there is no intention in the new contract to deprive the Light Co. of its shares of profits, as feared by me. Mr. Edison states the same thing. So my above criticism will be withdrawn as soon as I am satisfied that the new contract is clear, or is made so upon this point.

(I) The new contract provides for an accounting of profits, just as the existing one does. The frequency however is changed. Under the old contract, accountings were to take place the 1st, of January and the 1st, of July. Under the new contract there is but one accounting a year, namely February 1st.

I rather object to this. The requirement of two accountings a year should be continued. In a new business like this, where everything is uncertainty and everybody is feeling his way over new ground, stock should be taken, books closed, and accounts rendered, at least every six months. I think that this is even of greater importance to the Lamp Co. than <sup>to</sup> the Light Co. Be that as it may, I think the Light Co. should insist upon it, namely, that the accountings should be semi-annually. Let the proposed new contract be amended accordingly.

The new contract provides that statements of sales and collections, also statements of actual cost of lamps, shall be

rendered to the Light Co. the first days of each August and February. I see no reason why the "accountings" as well as the statements, should ~~not be made at the same time~~, instead of only once a year as above mentioned.

In this connection, note that for the purpose of getting at the profits (in which the Light Co. participate) each period of accounting is taken by itself. That is to say, if the accounting is once a year, the profits are fixed on the business of that year and if they exceed the ratio of five cents a lamp, the Light Co. receives one half of such excess of profits. Each period, be it 6 months or 12 months or any other fixed time, stands by itself, and if the business during that period shows a loss, instead of a profit, such loss is not carried over to the next ensuing period or unit of accounting. For instance, if the business of the Lamp factory for the year 1883 showed a loss of \$50,000. and if the business for the year 1884 showed a profit (above the 5 per cent profit) of say \$100,000. the loss incurred in the former year, would not be deducted from the profit of the other year. Each period of accounting stands by itself.

With reference to this point, while it may be said that it makes no great difference either way, whether the unit of ~~ac-~~<sup>co</sup> counting is six months or 12 months, still everything considered, I think it should be the shorter time, namely, 6 months.

W I therefore suggest that the old contract remain as it is in this regard, and that the change in the new contract be rejected. Then accountings will be rendered every six months.

(J) Regarding money sunk by the Lamp factory in lamp experiments &c., it goes into the usual expenses of the business. Consequently, all such losses are deducted, before there can be any profit. That is to say, if the Lamp Co. sinks money in experiments on lamps for foreign markets &c. the expense comes out of the Light Co. to the extent of its profit. Is that right?

Touching my criticism as above, Mr Edison claims, and with much reason, that the Light Co. instead of being injured by the foreign business is benefitted. He states that the larger the production or output of the factory is, the cheaper will be the average lamp. Not only this, but all lamps sent abroad are invoiced at a higher price than lamps furnished us, and consequently, if there is any profit, it goes into the general fund, thereby reducing the price of our lamps, because in getting at the average price of a lamp all foreign sales are taken into consideration.

SIXTH. Referring to page 11 of "C. D." where a provision is made for starting a new lamp factory, by the Light Co., if the Edison Lamp factory is unable to fill orders promptly, I think that such factory should not be limited by the one year provision, inserted by Mr. Edison on page 11 "C. D." If the Lamp

Co. cannot fill all orders for lamps, the Light Co. ought to be entirely free, without restriction, to start other factories. And there should be no conditions which might hamper the Light Company in doing so.

I understand that Mr. Edison is now willing to waive this one year provision, in view of my criticism above. So this is now all right.

SEVENTH. Referring again to the possible inability of the Lamp Co. to fill orders promptly, I observe that Mr. Edison suggests that the question of such inability shall be determined not upon actual orders, but upon actual consumption. That is to say, if the Lamp Co. is not able to make all the lamps that are needed for actual use, then the Light Co. may start a new factory. But if our licensee companies wish to carry a surplus of lamps, and give orders for such surplus say three months in advance, Mr. Edison is not willing to have the inability of the Lamp Co. to fill such orders, to be such an inability as would entitle the Light Company to start an additional factory.

I suggest in this connection, that the test of inability be, first, lamps required for actual use, and second, a surplus stock sufficient, taking the then existing consumption as a basis to last three months. I think some such clause as this should be inserted in the new contract, and that it should not be left as Mr. Edison suggests.

Mr. Edison has considered the above criticism, and states that he accepts it. So this is now all right.

EIGHTH. The new contract provides that the entire amount expended by the Lamp Co., since the beginning of their business, in experimental work necessary to improve the lamp and the methods of manufacturing, it, shall be deducted from the surplus profits of manufacturing, until the same shall have been liquidated. The amount of such expenditure, say to January 1st, 1883, is to be stated on the face of the new contract. In deducting this amount from the profits, it should, however, be observed, that it is not deducted from the entire profits, but only from such portion of profits as remain after the exclusive 5 cents per lamp or in that ratio, coming to the Lamp Co., shall have been deducted.

Is this provision just? As to the amount actually lost in experiments on lamps, provided that amount can be ascertained, I think it may to some extent be just, but I do not think so, as regards money sunk in experiments upon "methods of manufacture". Before this amount is allowed, it should be investigated very carefully, otherwise we shall be paying not only for actual money sunk in experiments (to which I do not so much object) but also for all sorts of mistakes in buying machinery, equipment &c. I do not think this allowance should be made for anything except money actually sunk in experiments upon lamps, and I think the fact of such expenditure, should be clearly shown by the records or books of

the Lamp Co., from the beginning. Otherwise it ought not to be allowed at all.

(Mr. Edison has read my criticism as above, and approves. He agrees that the Light Co. is to be charged not for improvements in methods of manufacture, but simply for experiments on lamps, that is to say, for such a class of work done at the Lamp factory as would ordinarily be done at Mr. Edison's laboratory. So that is all right).

In this connection, let me state that whereas the Light Co. is interested only in North and South America, the Lamp Co. has the entire world for a market. These experiments which the Light Co. is now called upon to help pay for, will accrue to the benefit of all the Edison Companies throughout the world. Of course that will benefit Mr. Edison and his personal associates. Apparently they have recognized this fact. The expense of these experiments and improvements are to be paid in the first instance from the money furnished by the Lamp Co., out of its own pocket. But whenever there are profits, in excess of the exclusive profit of the Lamp Co., those profits should be used to reimburse the Lamp Co., if those profits were not used in that way, they would be divided equally between the Lamp Co. and the Light Co. Con-



sequently, the Lamp Co. contributes one half of the cost of the experiments and improvements, and the Light Co. contributes the other half. The only question for the Light Co. to determine, in this connection, is whether North and South America are to bear one half of this expense as against all the rest of the world upon the other half.

*Edison's Agent, but refer to Board.*

*don't remember or bear whole of previous Equity*  
It seems to me doubtful whether the Light Co. ought to bear as much as one half of this expense, or indeed any of it.

Probably one quarter would be more just. But I would not object to bearing some portion provided, first, it applied only to expenses incurred before January 1st, 1883; second, provided the expense related only to improvements in lamps, exclusive of improvements in machinery &c.; and, third, provided the fact and amount of such expense appeared clearly, separate from all other matters, on the records or books of the Lamp Co.

**NINTH.** The last section of the New contract provides that hereafter all experiments made by the Lamp Co. under direction of the Light Co. shall be paid for by it. But as regards all experiments made by the Lamp Co. without any order from the Light Co., the Light Company shall bear one half of the expense, the same to be deducted out of its share of the net profits. This brings up the same question that I have discussed in the last paragraph above.

Is this charge against the Light Co. to lap over from one year to another, or is each fixed period or unit (be it 6 months or 12 months) to stand by itself in this regard?

Let the new contract be amended so that it will provide that such experiments made under the direction of the Light Co., must be only those that are ordered in writing by the Light Co.

As to whether the Light Co. should thus pay one half of the Lamp Co's experiments, not ordered by the Light Co., I am in doubt. The Lamp Co. has other customers besides the Light Co. and its interests will extend over the world. *We don't care a Continental for our all over the world customers.* It seems to me that the Lamp Co. will probably spend a good deal of money in experiments which the Light Co. would not approve of. Why then should the Light Co. thus pay one half of such experiments? I am not sure that they ought to pay any. Certainly they ought not to pay more than one quarter. And each unit or period of accounting, in any event, should stand by itself without overlaps.

TENTH. The new contract ought to contain a provision guaranteeing its lamps. Our Isolated Co. is now guaranteeing a life of 600 hours for the Edison lamps. What is the result?

They buy a vast quantity of lamps from the Lamp factory, pay the full price for them, but many of them do not last 600 hours. *not over 600* In such cases, the Isolated Company has to give away to its customers good lamps to supply the places of these bad ones. *Some last 1200 hours* It is a very

*Probably Edison would be a nice thing.*

large item of expense to the Isolated Co. I mention that Co. merely as an illustration. Doubtless other licensee companies will have the same experience.

The new contract should contain a provision guaranteeing a stated life for its various lamps. And the Light Co. should have the right to test this life, not by the experience of its customers (for such a test would be unjust) but in some fair way, such for instance as testing the lamps at the Light Co's own testing room. If the life of the lamps so tested turns out to be less than 600 hours, or such other life as may apply to the peculiar type of lamp tested, the Lamp Co. shall reimburse the Light Co. or its licensees accordingly.

*We will guarantee if anyone will tell us how to make the lamps do it always - we will*  
 ELEVENTH. *There should be a provision in the new contract to the effect that the Lamp Co. recognizes the validity of the patents of the Light Co., and their binding effect for the full seventeen years.*

Mr. Edison informs me that he gives his assent to such a provision.

TWELFTH. The eighth section of the new contract, which is substantially a copy of the tenth section of the existing contract, does not quite suit me. I refer to the provision for licenses for using other people's patents being acquired by the Lamp Co. In view of the fact that contingencies may arise where-

by the Light Co. will be entitled to start other people in the

18

business of manufacturing lamps, I think that this new contract should contain a provision compelling the Lamp Co., whenever it takes a license for an outside patent, to take it in such a manner that the Light Co. may avail itself of it in case of starting additional factories. As the contract now stands, in this regard, the Lamp Co. is morally bound to do the best it can to get such a license, broad enough to cover the Light Company's requirements in all respects, but it is not compelled to do so. I would go so far as to bind the Lamp Co. not to take a license, unless they can get it broad enough to meet this emergency.

(Mr. Edison has read the above criticism and states that he accepts it. He says that if any case arises where it is impossible for him to get a license except for the Lamp Co. itself, he will get special authority from the Light Co. to take such a license).

THIRTEENTH. The Light Co. must not forget that they will have to start lamp factories in other countries in North and South America, besides the United States. For instance in Canada, the Canadian laws require that patented articles must be manufactured on Canadian soil. A provision should be inserted in this new contract, securing all the rights and privileges accruing to the Light Co., touching methods and processes for manufacturing to such outside factories in other countries.

(Mr. Edison has read this and consents to it. He says he will not only do this, but that in getting licenses for the Lamp Co., as provided for in the above section, he will get them for these subordinate lamp companies, such as the Canadian Co. for instance.)

FOURTEENTH. The Light Co. ought really to do all its manufacturing itself, including the manufacture of lamps. If it does not, its business at no very remote period, will be at the mercy of outside manufacturing companies. This is especially true of the Lamp contract. The lamp is peculiarly the vital part

of the Edison system of lighting. The Light Co. ought to control its manufacture. Indeed the Company itself should be the manufacturer. But our Directors do not see their way clear, certainly for the present, to undertake the enormous burden of manufacturing. Still we should surround ourselves with every possible safe guard. I accordingly make the following suggestion, and deem it very important.

*copy*

I suggest that a clause be inserted in the new contract to the effect that if at any time hereafter, during the continuance of this contract, the Light Co. desires to purchase the factories and business of the Lamp Co., it shall have the right to do so upon paying the Lamp Co. twice the appraised value of its property, the said appraised value to be made by arbitrators, *if it* cannot be mutually determined upon, provided, however, that said appraised value shall in no event be less than twice the actual cash cost of the said property.

FIFTEENTH. The proposed new contract, which raises the price of the lamp from 35 to 40 cents, allows the Lamp Co. a profit of 5 cents a lamp, whereas the old contract allowed a profit of 3 cents a lamp. After these profits shall have been deducted, for the Lamp Co., the remaining profit, if any, is to be divided between the Lamp Co. and the Light Co. My criticisms on this are as follows:

FIRST. Under the existing contract, the price is 35 cents, and the profit is 3 cents. Under the new contract, the price is to be 40 cents, and the profit 5 cents. The Lamp Co. is now making about 2000 lamps a day, and it has made arrangements for ultimately making 20,000 lamps a day. Before long they will probably make 10,000 lamps a day. Let me figure it out on that basis, of 10,000 a day.

10,000 lamps a day, for 300 days, at 3 cents a lamp, is a daily profit of \$300., and an annual profit of \$90,000. The present investment in plant at the Lamp Factory is about \$180,000. But to increase the output from its present capacity to 10,000 a day, might possibly require the investment to be increased to (say) \$250,000. Consequently a profit of 3 cents a lamp, would be 36 per cent per annum on the investment.

10,000 lamps a day, for 300 days in the year, at a profit of 5 cents a lamp is a daily profit of \$500. and an annual profit of \$150,000. which is about 60 per centum on an actual investment of \$250,000.

If the profit is kept at 3 cents, and if the output is 10,000 lamps a day, and if a real profit of 5 cents a lamp is actually earned, the gain to the Light Co., if this 2 cents per lamp profit were divided between it and the Lamp Co., would be

\$30,000. a year to the Light Co.

~~\_\_\_\_\_~~  
 licenses of the Lamp Co. Let us also remember that it is  
 exclusive licenses for the best part of its business, the only one  
 which contains the element of continual renewal. As fast as  
 lamps give out they must be renewed. In view of all the facts,  
 is the proposed increase of profit from 3 cents to 5 cents ~~ix~~ too  
 much, or not? Let it remain at 3 cents where it is now.

SECOND. What items are to be deducted before profit  
 is calculated? Is the cost of experiments to be deducted? Is  
 increased plant, machinery &c. to be deducted? Are <sup>the</sup> losses of one  
 year to be carried over to succeeding years? Or is each year to  
 stand by itself, the profits and losses of each year being distrib-  
 uted at the end of that year, without overlapping? Inasmuch as  
 the Light Co. has an interest in Lamp profits, the items which  
 are deducted before profits are computed should be carefully stat-  
 ed in the contract. Let the contract provide for this important  
 point, by stating clearly just what items are to enter into the es-  
 timate of profits, that is to say what is to be deducted before  
 profits are arrived at.



1883-01-24  
East Newark Jan 24/83  
Recd from Edison Lamp  
Co. 1/2 Do Experimental  
Lamp New Style Plating  
Martin W. Force

EDISON LAMP COMPANY

THOMAS A. EDISON  
FRANCK & SON

EAST NEWARK,

1883  
26  
M. Eaton  
Jan 26 1883

Dear Mr. Edison:

Regarding  
money matters.

I have been compelled  
to give two notes at sixty  
days during the past month  
to meet drafts made on the  
Lump Co.

Chas Pratt Co.	due	
for gasoline	March 2	794.82
Amsonia Brass Works	March 15	407.87
		<u>1202.69</u>

These bills were over ninety days  
old and we could not  
do otherwise.

Besides these notes we owe	
Geo. Place Wray Agency.	2284.65
due Oct. 12	
Pengmann Co.	1936.93
	<u>4221.58</u>

These notes can be renewed

## EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
JACOB S. LIPSON,  
TREASURER.

EAST NEWARK, ..... 188

1883-01-26  
L.A.C.

on paying part of principle.

I have offered Morris, Lasker & Co. Phila. a note, which they have not yet accepted for \$800.00 in payment for machinery pumps, for which they were going to draw on us.

These notes have all been necessary to meet bills long past due, and are all in hands not hostile to us, that would review if we desired taking a partial payment in cash.

We cannot run without money and our lamp sales just make us whole on this cost. All improvements and enlargements must be paid out of outside money.

If we could get the \$2386.95

## EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS A. LIPSON,  
TREASURER.

EAST NEWARK, ..... 188

1883-01-26  
L.A. 2.3.

now due us on the five cents difference, and forty cents on future lamps we should be able to possibly pull through another month and even to turn the corner. This latter point will depend entirely on the proportion that our foreign orders bear to domestic orders, and the size of both.

I do all in my power to keep expenditures down, but find that it takes constant expense to keep everything in repair, and to meet the demands made by an increased production.

The fact that we are in a new business makes our credit very uncertain, and with a large floating debt, it is

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS S. UPHAM,  
TREASURER.

EAST NEWARK, \_\_\_\_\_ 188

1883-01-20  
J. A. E. 4

exceedingly difficult to make  
both ends meet.

We are now running the  
third circle of printers and  
expect to turn out 12,000  
lamps to 15,000 a week from  
the three circles.

We shall return all our  
scrap platinum and get an  
equal weight of new. We are  
now picking it over to save  
that which can be used a second  
time. We are very close to our  
glass supplies. If Corning  
should refuse us we should  
have to shut down in less  
than a week. We have three  
weeks stock of socket rings  
and screws on hand and  
~~use~~ the whole of the last lot.

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT.  
FRANCIS R. UPTON,  
TREASURER.

S. A. E. 3  
1883-01-26

EAST NEWARK, \_\_\_\_\_ 188

We cannot borrow any money  
in Newark and are pestered  
constantly for bills due.

I am going on home  
tonight. I have just received  
word that my brother is much  
worse, and only expected to live  
a few hours.

Yours Truly  
Francis R. Upton.

Dear Mr. Edison,

I am told you may honor 'these diggings' with your presence at a Board meeting to night. if you can spare time to come over to Sixth Avenue to see a couple of my arc lamps on your 55<sup>t</sup>. circuit you would do me proud.

Faithfully yours  
Otto A. Moses.

Jan. 29..83

183-01-30

FREDERIC ADAMS,  
COUNSELLOR AT LAW,  
755 Broad Street,

Newark, N. J. Dec. 30, 1883

Francis Lynton, Esq.

Dear Sir,

The confusion  
in evidence to moving my  
office has prevented me  
from doing anything  
more than to jot down  
the points which give  
the result of the law  
as to the taxation of  
private corporations.  
I think, however, that  
it will in your  
case I have given the matter  
a careful examination.

Yours very truly,

F. Adams.



As to Taxation of the Edison Lamp Co.

The real and personal Estate of Every such Corporation shall be taxed the same as the real and personal Estate of an individual.

The real and personal Estate of an individual is taxable at the full and actual value thereof and debt bona fide due to creditors residing within this State may be deducted from the valuation.

The personal Estate, or chattels, of the Corporation will be assessed where the principal office is. The real Estate will be assessed where it is situated.

The Corporation is taxed for the capital stock at its actual value, and accumulated surplus. The stock is not taxable in the hands of the stockholders.

"Actual value" means market value.  
"Accumulated surplus" is the property or fund which the

corporation less in excess of its  
capital stock, and above all  
its debt and liabilities.

As there is more actual  
or market value in the case  
of a large capitalization than  
in the case of a small capit-  
alization, the taxation will be  
greater in the former than  
in the latter case.

The valuation of the real  
estate is to be deducted from  
the stock and surplus. Rev. § 1152, 1871.  
But, recent case makes this doubtful  
13 Moore 35.

Stock may be issued for property  
purchased in which case the  
stock must be so stamped across  
the face. But the property must  
be money's worth, or a personal  
liability is the consequence.

J. Stewart & Co.

The rate of taxation in Harrison  
is somewhere between \$2.50 and \$3.00  
on each \$100. In Newark it is  
\$2.44. This includes everything.  
Newark, Jan. 30, 1882. J. Adams,  
Att'y. at Law.

EDISON LAMP WORKS

100 N. 3RD ST.  
PHILADELPHIA, PA.  
TRADE MARK

11

Apton

EAST NEWARK, Jan. 31, 1883

Dear Mr. Edison :

The fibres dipped in paraffin showed the same as regular. As it will prevent any atmospheric influence on the fibres, we think of using it on the regular.

I will bring full statement of experimental expenditure into N.Y. next Monday.

The split 100 C.P. is on its way through.

The Swan lamps showed good record, will send you full account in a day or two.

Yours Truly  
Francis R. Apton

Monthly Statement

1883-02-01

THE EDISON LAMP CO.,

East Newark, N. J. Feb 1<sup>st</sup> 1883

Thomas A. Edison Esq.

To R. Upton Advance

27547.27

E. E. Ill. Co. "

397.75

Bills due by us

36998.01

\$ 64937.03

Bills due to us \$19669.77

Lamps on hand Jan 1<sup>st</sup> 67562

" " Manufactured Jan 1<sup>st</sup> 1883 38153

100695

Home Sales for month 20735

Foreign " " " 5912

26647

Lamps on hand Feb 1<sup>st</sup> 83

74048

Home orders for month 20784

Foreign " " " 9412

60196

Yours truly  
Edison Lamp Co.

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANK B. LUTON,  
TREASURER.

111883-02-07  
Milton  
EAST BOSTON, MASS., Sept. 7, 1883

Dear Mr. Edison:

The twisted fibre lamp has not had a life test yet, as I wanted Howell or Marshall to read candles so that we should be sure that the test was fair. Howell is away for the Howell tests and Marshall returns tomorrow from Canada.

The lamp at 16 candles showed

137 Volts

199 Ohms resistance

124 candles per H.P.

It has no appearance of being a good vacuum. Are you sure of the in sealing

1883-02-07

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. UFFORD,  
TREASURER.

EAST NEWARK, \_\_\_\_\_ 188

off you did not get any  
air into the lamp?

The last lot of Swan lamps  
at 64 volts varied from  
55 to 95 candles.

Their economy at such candle  
power make it so high as  
to prevent their use, at such  
a volt.

The Swiss order makes the  
future look extremely vary,  
10,000 @ 50 cts = \$5000

One weeks work easy.

Yours Truly

Francis B. Ufford.

1883-02-07

EDISON LAMP COMPANY

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. WILSON,  
TREASURER.

NEWARK, Feb. 7, 1883

Saml. Inouell Esq  
65 Fifth Ave. N.Y.C.  
Dear Sir:

Your letter  
concerning the order for  
100 C. P. lamps received and contents  
noted.

Regarding the defective Eng-  
lish lamps. What we are  
now making should give  
satisfaction. They are doing  
in isolated plants in the  
U. S. Unfortunately for Eng-  
land they took the lamps  
we made after first starting  
our factory here. We did  
not know they were bad  
at the time, and after  
we found it out it took

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. LIPTON,  
TREASURER.

EAST NEWARK, \_\_\_\_\_ 188

1883-02-07

us a long time to overcome  
the trouble.

We think we are solid  
now and expect to remain  
so. I gave Johnson a very  
full letter regarding the  
matter, a copy of which you  
will find enclosed.

Yours Truly,  
Francis R. Lipton



EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRES.  
FRANCIS B. LYTTON,  
TREAS.

EAST NEWARK,

1883-02-07

Copy.  
Feb. 1, 1883

E. H. Johnson, Esq.  
105 Fifth Ave., N. Y. City.

Dear Sir:

A few facts re-  
garding lamps may be of use  
to you.

Complaints of arcing.

When we first started making  
lamps at East Newark, we found  
it impossible to prevent arcing.  
We spent a large amount of  
money experimenting and burned  
up many lamps testing them  
at high candle-power. As a  
result we now make lamps  
that show very little of this  
tendency.

Life of lamps

The lamps made during the  
summer were not up

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. LYTON,  
TREASURER.

EAST NEWARK,

188

1883-02-01<sup>2</sup>

Copy

to the standard as we had  
green hands in every department.  
England probably had more  
than her share of these as  
we filled the order received  
last fall mostly with lamps  
made at Newark. We did  
the very best we could at the  
time. The pains taken in  
making the lamps may be  
realized when we say that  
the lamps cost us over sixty  
cents at that time, as we  
took every precaution that could  
be suggested.

England also has lamps of  
low volts. This fact will  
also tend to make their  
lamps run high candle  
power and show short life. We could

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. SPEER,  
TREASURER.

EAST NEWARK, \_\_\_\_\_ 188

1883-02-30

not send them anything else at the time.

Range of volts

We are now in position to give them higher volts. Most of their Isolated lamps were below 95 V. we can now give them the same range as the Isolated Co.

The lamps we sent them for Central Station use were 106-7- volts.

As lamps are now made the low volts indicate a poorer economy and longer life. while the higher volt indicate a better economy and shorter life.

You understand that we cannot make lamps of any one volt. the best we can do

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. UPTON,  
TREASURER.

EAST NEWARK, \_\_\_\_\_ 188

1883-02-04

is to make a lamp that will show more of any one volt than of any other.

We do this by making a lamp that will just the volt he wishes, yet in order that we may not accumulate too large a stock of unused volts, we are compelled to insist on the right to ship the nearest volts we can to an order.

### Special Lamps

We have now ordered from Japan Bamboo of extra length. When this arrives we feel that we can give 50 and 100 C.P. lamps of long life that will be of the volts wanted at the Holborn Viaduct Station.

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRES'T.  
FRANCIS B. SPEER,  
TREAS'R.

EAST NEWARK, \_\_\_\_\_ 188

1883-02-01<sup>3</sup>

I hope to make a 150 C.P. lamp of about 50 volts that can be used to replace arc lamps. With this lamp a considerable isolated business can be done using machines already installed.

I will lamps we can make in any quantity desired and at a lower figure than for regular lamps. if they are ordered in quantities sufficient to guarantee the making of the special tools requisite.

Price of lamps

B lamps can be made cheaper than A lamps. If Mr Edison agrees I would like to have you carry a proposition

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. UPTON,  
TREASURER.

EAST RIVER, N. Y., \_\_\_\_\_ 188

1883-02-01

to England to make them  
for 42 cts (forty two cents)  
in lots of 25,000 (twenty five  
thousand)

We shall make a very good  
B. lamp using a new dimension  
carbon that we have found  
gives excellent results.

We have now a 14 candle  
B. and a 12 candle B. lamp  
that we can recommend.

You spoke of an arrangement  
with Siemens I suggest.

Give him for use with his  
machines the 12 candle B  
lamp. This will give a most  
excellent life and about the  
proper quantity of light. By  
running over 12 candles there will be

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRES'T.  
FRANCIS B. LYTON,  
TREAS'R.

EAST RIVER, \_\_\_\_\_ 188

1883-02-07.

margen enough in life, and  
the economy can be increased.

If Mr Edison agrees, I would  
offer them these lamps in  
lots of 50 000 (fifty thousand) at  
a time at 42 cts. (forty two cents).

This is less than the lamps  
have cost us during the past  
six months, yet in large orders  
I hope to make a small  
profit on them.

I should like to run the  
volts of the 12 candle B. lamps  
at about 55, which I think  
would about suit the Siemens  
machine.

Life of lamps.

I wish you would explain  
what is meant by 600 hours

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS W. UPTON,  
SECRETARY.

EAST NEWARK,

188

1883-02-01

average life, and specially call attention to the fact that some lamps will go at once, even if the lamp is in every way good.

The records of nearly every isolated plant in this country has shown that the lamps are as good as the guarantee made by the Edison Co. and there are numerous instances of 1000 to 1500 hours average life.

Yours truly  
Francis W. Upton.



EDISON MFG CO.

11 1883-02-14

EAST WARK, N.Y. - 14 1883

Dear Mr. [unclear]  
I have [unclear] [unclear] [unclear]  
[unclear] [unclear] [unclear]

Will you kindly drop a note to Wanda to loan us the partition in the office?

Dyer is to try to float our pay-roll this morning.

Yours Truly  
L. K. [unclear]



Monthly Statement 1883-02-31  
 THE EDISON LAMP CO.,

East Newark, N. J., *March 1<sup>st</sup> 1883*

Thomas A. Edison Esq.

<i>G. R. Winton Adams</i>		26081.43
<i>E. E. Ill. Co.</i>		397.75
<i>Bills due by us</i>		36722.56
	#	63171.74
<i>Bills due to us</i>	# 14521.05	
<i>Lamps on hand Feb 1<sup>st</sup></i>		74048
<i>" mfg in February</i>		42933
		116981
<i>Home Dues for month</i>	22967	
<i>Foreign " " "</i>	9570	32537

*Lamps on hand March 1<sup>st</sup> 1883* **14444**

<i>Home orders for month</i>	27875
<i>Foreign " " "</i>	18100
	45975

Yours Truly  
 Edison Lamp Co. *per*

East Newark, N. J., *Mon.* *2nd* *115-03-02*  
1883

*Samuel Insull Esq.*  
*New York*

*Dear Sir -*

*If you have a key*  
*to fit door in the partition*  
*we got from West Park office*  
*will you please mail same*  
*and oblige*

*Very truly,*

EDISON LAMP CO. *x*

11

Feb. 2. 83

D. Ward

1883-03-02

*Ans. to mail*  
*The Dept. of...*

27 Walnut Street.

Feb 2 1883

J. A. Edison Esq

Dear Sir. -

In accordance  
with your suggestion I  
sent an order to the Ed-  
ison Lamp Co. through the  
Edison Electric Light Co.  
for some incandescent lamps  
of from one to two candle  
power and rec'd the en-  
closed letter in reply. If  
it will cause you any annoy-  
ance to let me experiment  
with them, as I proposed  
let it drop, it is but

advantages in Surgical  
Lighting.

Respectfully Yours  
Edwin D. Ward

I will be very thankful for  
the opportunity to try them  
if you see fit to put the  
order through. If they prove  
a success it will create  
a large demand for the  
lamps and the Company  
alone will receive the  
benefit - I believe an  
improved Secondary Battery  
would be the thing although  
these cells will give a  
good light -

I have consulted  
Prof. Hayes of N.Y. and  
Dr. C. Corman & Holden of  
Newark and they think it  
could be done with great

1883-03-08

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
"MANY"  
FRANCIS L. UPTON,  
"THREE"

EAST NEWARK, March 8 1883

Dear Mr. Edison:

We are now in full running order so that all departments are good for 12,000-15,000 lamps a week according to the style of lamps run.

Our orders on hand and prospective orders will keep us busy until the latter part of April. Then we will have to slack down in work unless we can bring in new orders.

I spoke to Small yesterday about offering lamps at 40cts for May and June if ordered in lots of 50,000. We could make money on them as we are now in fine trim.

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
"MANY"  
FRANCIS L. UPTON,  
"THREE"

EAST NEWARK, \_\_\_\_\_ 1883

J. H. E. 2

Everything is running in a regular manner with hands in each department that are trained for the work required of them.

Holzer has a fine set of glass blowers coming on, we have taken on blowers and married men as far as possible in this department so as to have reliable help. We are very anxious to keep busy until July 1, then we propose to shut down until our fall orders come in, probably for six weeks.

There is no question in my mind that next fall we shall have all the business it is possible for us to do.

With the new village plants, a new station in N.Y., the new styles of dynamo machines,

L. A. 2. 3

the new catalogue of Benjamin,  
and the renewals that must  
come from lamps now burn-  
ing there is no question  
about demand. Then abroad,  
England is bound to do some  
business and the Continent  
will take a regular amount.

20,000 lamps a week is a  
large number, but everything  
points to it next fall. To take  
good care of this business we  
must have our trained hands.

For example in putting in carbons.  
I have blown that have been with  
us six weeks can <sup>real</sup> put in 30 car-  
bons in the globe a day with a  
loss of 20%. One of our old  
hands will put in 240 carbons  
in ten hours with a loss of  
less than 4%.

L. A. E. 4

You know the advantage of  
running full, it brings down  
the expenses per lamp very materially.

I have been always very  
careful to study my orders be-  
fore launching out, yet now  
everything points to an immense  
business next fall, and we  
need some orders to carry us  
through to July.

#### Resistance lamps.

We have on hand

Res 10 cts.	800
Low "	2775
Old "	668
High B	8950
Old "	6150
Res "	2300
Old "	2325
High "	4575
Res "	6800
Old 16 cts. B.	875
" 32 "	920
	<u>33,938</u>



EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANK B. SPENCER,  
TREASURER.

J. H. E. 5  
EAST NEWARK, ..... 188

These lamps are now entirely dead stock. If we can sell them at any price it would be as much profit to the Lamp Co.

If you could write to your agents abroad they might find uses for them.

The worst part of these is that we are making more constant by.

The W. U. could use a number if proper arrangements could be made with them.

Bergmann might study out a theatre box that would employ the 16 sp. B.

Yours Truly  
Francis X. Upton.

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. UPTON,  
TREASURER.

11 1883-03-09

March 9, 1883

Sam'l. J. Dorman

Dear Sir:

The enclosed complaint I have examined into.

The number they quote we cannot recognize as anything we have placed on cartons.

Our packer has always marked the volts on packages so far as he knows. In future we will use a stencil "Volts" and mark plainly and in good sized figures the number of volts in front of it.

Every lamp marked with its volt number as far as we can find out.

If the complaint were more specific giving the number

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. UPTON,  
TREASURER.

1883-03-09

EAST RIVER, N. Y. 188

of the package or the date of receipt it would aid us in placing the blame.

We try in every way to pack our lamps in the way that will satisfy the receiver, any suggestions or complaints are thoroughly examined.

Yours Truly  
Francis R. Upton

EDISON LAMP COMPANY

1883-03-14

EAST NEWARK, March 14, 1883

*Letter not filed  
 new position  
 that school  
 with  
 paid*

Your inquiry relating to safety catches in the lamp received. I have to refer you to Halger regarding the device and he is to try some inside parts made as directed.

The objections to be urged are the following. If the piece is made of lead it would be very liable to melt when the seal is made.

If the piece were made of copper it would be apt to pull apart in the manufacture.

In any condition would it be more apt to chink or are than the cut-out now introduced?

*R. W. [Signature]*

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRES.  
FRANCIS R. WATSON,  
VICE-P.

371883-03-31

*Wptor*

EAST NEWARK, March 31, 1883.

Saml. Inoull Esq.  
 65 Fifth Ave. N.Y. City.

Dear Sir:

We have shipped Mr. Batacler glass sufficient for about 2100 lamps. We have not shipped all as we wished to know the condition of our last shipment when it arrived.

If there are no complaints regarding it, we will ship the balance as soon as we receive the glass from Coning. We start work on Tuesday morning.

Yours Truly  
 Francis R. Wptor

Monthly Statement 1883-04-02

THE EDISON LAMP CO.,

East Newark, N. J. April 2<sup>nd</sup> 1883

Thomas A. Edison Esq.

F. R. Wpton advances	30717.97
E. E. Ill. Co. "	397.75
Bills due by us	<u>34765.30</u>
	\$ 65881.02
Bills due to us	* 16986.65
Lamps on hand Mich <sup>l</sup>	84444
" " March	<u>64216</u>
	148660
Home shipments 29406	
Foreign " 19870	<u>49276</u>
Lamps on hand April 2 <sup>nd</sup>	99384
Defective Votts ready for shipment	21709
Home orders for month	10086
Foreign " "	<u>14600</u> 24686

Yours truly  
Edison Lamp Co. D

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. UPTON,  
TREASURER.

EAST NEWARK, April 5, 1883

Saml. D. Small  
65 Fifth Ave. N.Y. City

Dear Sir:

Mr. Bradley  
wishes me to say - that the  
machine for milling fibers  
is ready for practical work.  
He wishes Mr. Edison to know  
that he thinks it a practical  
machine.

I also call your attention to  
the fact that all arrangements  
regarding giving Messrs. Bradley  
Small & Harrison one per  
cent in the business, have only  
your formal notification of  
Mr. Edison's wish to be con-  
sidered

Yours Truly  
Francis R. Upton

## EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRES'T.  
FRANCIS B. STODOL,  
TREAS'R.

11 1883-06-06  
Norton  
EAST NEWARK, April 6, 1883

Dear Mr. Edison:

The month of March we have tried to make a sample month of what we can do if we had orders enough. In five weeks our accounts

show the following totals

We made	Fibres	130,785	
	Carbons	101,220	
	Clamps	<del>88,354</del>	88,322
	Plated	81,154	
	Glasses	77,602	
	By hand	73,239	
	Socketed	68,778	
	Treated	68,350	
	Sold	54,088	
		10,000	

Have on hand about more good lamps than at beginning of month

We are now in complete order to make 15,000 lamps a week, but have cut down our working

## EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRES'T.  
FRANCIS B. STODOL,  
TREAS'R.

11 1883-06-06  
J. A. S.  
EAST NEWARK, \_\_\_\_\_ 1883

force so as to make 10,000 a week or less. Unless you otherwise order we shall run five days a week, and as soon as we have caught up with our orders we shall run only just enough to fill orders as they come in.

Since Jan. 1 our books show that we have sold and rendered bills for lamps amounting to \$55,280.

The cost, counting all labor material, interest on loans depreciation 12% per year 45,830 leaving for interest on \$ 9,450 capital and profits.

This profit and interest has been distributed as follows.

Buildings & fixtures \$ 2,049  
Two new furnaces have been made for carbonizing, a room has been completely fitted up.

## EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRES.  
FRANK B. LYTTON,  
TREAS.

EAST NEWARK, \_\_\_\_\_ 188

1115-04-00  
J. A. E. 3

For making inside parts, new arrangements made for working bulbs, new steam pipes run, water carried to carbonizing house and pumps fixed for giving water there in case of fire, plating room enlarged & new exhaust pipe made.

Machinery & Tools \$3,201.65

Four new fibre machines constructed new table for socketing fitted up, Bradley's fibre cutting machines made, hydraulic press fitted up and complete set of dies made for making carbon forms (expansion work) - new field regulator, new tools for glass department, &c.

Mercury for third line	553.00
Platinum wire paid for but not yet received	3,025.58
	<hr/>
	8,829.52
Sundry items	520.48
	<hr/>
	9450.00

1883-04-30

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. UPTON,  
TREASURER.

EAST NEWARK, April 18 1883

Dear Mr. Edison

Our financial condition is growing worse constantly. The orders have been extraordinarily light during the past two weeks, and the orders we have in do not cover a very wide range of volts, making our unsold stock larger constantly.

The worst financial feature is the trouble of getting money due us. This is the great stumbling block of the present.

Illuminating Co.	\$ 3872.90
Isolated	1793.5
Light	630.25
T. U. Union Light	2648.78
Revolving Lamp	801
	<hr/>
	9745.98

1883-04-30

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. UPTON,  
TREASURER.

EAST NEWARK, 1883

Note Isolated Co.	\$ 9745.98
Not able to discount	2648.78
	<hr/>
	12394.76

This is the credit we give to the various light Co's.

We owe about \$32,000 of which \$17,000 is due to the coming 4 class Works. We need about \$4,000 for clearing up sundry bills. We are going on the principle of letting the other fellows walk in regard to small bills.

We have been compelled to give notes from time to time and now have out the following

Apr. May 8	S. Bergmann	\$838.49
10		1451.24
17	Chas. Pratt.	417.67
19	Sulamander Works	511.44
26	J. W. Meeker	163.91
		<hr/>
Total in May		\$3382.80
June 8	Geo. Pleas	\$1385.52
26	Peter Ruff	425.96
		<hr/>
		1741.48



## EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. WYLER,  
TREASURER.

EAST NEWARK, \_\_\_\_\_ 188

1883-04-30

3

July 3	Blountville Penn.	\$ 588.96
6	Consolidated Edg	914.20
July		1403.00
		3382.80
Total notes due		\$ 1741.48
		6527.28

I have been compelled to give these notes on part due accounts or to be drawn on. I have tried to distribute them as evenly as possible.

We have on hand as assets	
30000 lamps ready for shipment	
of saleable value	\$ 12,000
Pk. wire	3,000
Lamps part pump room	4,000
Done us	12,394
	\$ 31,394

against \$32,000 liabilities.

This gives us a surplus of all the irregular lamps, stock in process of manufacture, all machinery and tools, buildings and fixtures with nothing against them except capital stock and the

## EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. WYLER,  
TREASURER.

EAST NEWARK, \_\_\_\_\_ 188

1883-04-30

advance I have made.

Yet, with the present outlook and bill trade, we shall have to have some outside money to bring us through. I confess, I am exceedingly disappointed in the demand for A lamps from Hamburg, Antwerp &c, and from the English Colonies and other points. It is below anything my statistics show it should be if they are making constant advances in the same ratio as in the past.

I am going to cut down expenses to as low a point as possible.

The greatest cut will be to work days only except that we stop altogether. This will save more proportionally than any other method. By doing this we can keep the best of our help and cut down expenses very materially.

1883-04-30

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRES'T.  
FRANCIS X. WATSON,  
TREAS'R.

EAST NEWARK, \_\_\_\_\_ 188

I am absolutely at the end of my rope regarding advances unless I step in and sacrifice Electric Light Securities on the present market.

I believe in the future of the Lamp Co. The money I have loaned I expect to pick as a loan as long as you will allow me to. I would like to have a larger interest and am ready to offer \$4,000. a per cent or \$24,000. for six per cent to you transferring my loan to your account.

Then if you were to make an assessment I would wipe out the remainder and from the other partners we should bring in probably enough money to meet the present without calling on you.

Anyway an assessment of about \$10,000 will be needed unless the tide turns before next June.

Yours Truly  
Francis X. Watson.

1883-04-23

## THE EDISON LAMP CO.,

East Newark, N. J., April 23<sup>rd</sup> 1883

Mr Upton Esq.

Dear Sir -

The following Newark bills

we must pay at once.

Wm. Allen	73.45
D. Hart	13.12
Wallace	12.90
Carroll Co.	23.25
W. H. Smith	149.54
P. H. Smith	40.00
Conrad Co.	150.00
Hayward	46.00
H. H. H. H.	25.00
H. H. H. H.	18.00
J. R. H. H.	276.68
H. H. H. H.	17.15
C. H. H. H.	81.20
H. H. H. H.	25.00
Newark H. H.	39.27
Chas. Smith	39.24
Andrews & H. H.	29.00
Smith & Co.	400.00

#1,428.63

These bills are long past due, and we have heard from most of them several times. Beside the Newark bills we have some New York bills about \$2500<sup>00</sup> must be paid very soon. We have started them off about as long as we can.

Sincerely  
Philip S. Dyer

## EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS S. SPENCER,  
TREASURER.

EAST NEWARK, *April 30, 1883.*

111883-0430

*Wilton*

Dear Mr. Edison:

The money question is still exceedingly important and our financial situation is growing constantly worse.

We have drawn down our expenses as far as we can practically and run at all. In March when running perfectly full for <sup>over</sup> 15000 lamps a week we had on 324 hands, quite a number of them learners.

We now have ~~664~~ 127 hands on our pay roll and run only day time.

During the month of April we have had orders for 7500 lamps only, which is the smallest month for a year, and less than one quarter

## EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS S. SPENCER,  
TREASURER.

EAST NEWARK, \_\_\_\_\_ 188

1883-04-30

J.A.E. 2

of the average for the past six months.

Our books show that you have given us as agent about \$1046<sup>00</sup> during the month, and no other help. I have been compelled to put in \$1775<sup>00</sup> more as a loan to pay our pay roll and help out on another

Dyer informs me that over six Newark parties <sup>collect</sup> there in one day to collect the money owed to the last week.

You should make an effort to help us on this ground.

We expect to handle a large business next year and may want credit in doing so. Unless we pay the money that we now owe you we shall have great

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRES.  
FRANCIS B. UPSON,  
TREAS.

1883-04-30 3.  
J. A. 2. 3.  
EAST NEWARK, \_\_\_\_\_ 188

troubles in getting the credit  
we desire. Personally I have  
a great deal of financial  
pride. I do not owe any money  
and never have owed any,  
and hope never to. I am aware  
that you laugh at such a pride,  
yet it is born in me. I have  
loaned money to the Lamp Co.  
to help their credit, as I feel  
a personal pride in this com-  
pany.

Now I ask you as cor-  
rectly as I can, that you for-  
cuse for us \$5,000 outside of  
the money due us for lamps,  
which we need for pay-rolls  
and running expenses, so that we  
can place it into bills by  
May 2 of this week.

Yours Truly Francis B. Upson.

1883-05-01

THE EDISON LAMP CO.,

East Newark, N. J., May 1st 1883

Mr R Upton

Please find below a number of accounts that we have to settle at once.

Newark

W. M. Pleun	78.25
West	13.12
CornWalker	12.90
Damm, V.	23.25
Massey & Co.	149.52
P. H. Deane	50.00
Arnold & Co.	100.00
Hayward	56.00
H. G. Hume	25.00
Thompson	15.00
R. Dayn & Co.	276.65
Hunt & Phillips	17.15
C. Hall Mfg. Co.	51.20
Newark Fuel Co.	39.29
Chas. Smith	39.27
Archives Michol	29.00
L. V. Poland	70.00
High Coal Co.	194.88
Summ. Co.	185.00

New York & Co.

Vanderbank & Son	126.57
N. H. Beech & Co.	278.57
Wallace & Son	356.79
Parsons Bros	320.33
Insurance & B. Co.	41.86
Dixon Crucible Co.	491.86
Salamander Works	204.40
Fitzgerald	34.00
Egerton Bros	94.83
Bothers & Sons Dns	31.50
Wm. Godfrey	17.12
Bing, Bell Co.	51.51
J. W. Haasell & Sons	62.71
A. & Moore	58.88
Del. Water Bar Co.	166.67
Sillerton Co.	41.76

# 2374.68

# 1553.73

The above accounts must be settled at once.

Yours truly  
Philip S. Degan

1,883-05-01

Monthly Statement  
THE EDISON LAMP CO.,

East Newark, N. J., May 1<sup>st</sup> 1883

Thomas A. Edison Esq.

H. R. Upton	\$2,242.97
E. E. Ill Co.	397.75
Bills due by us	34,075.85
Bills due to us	66,719.57

Lamps on hand April 2 <sup>nd</sup>	99,584
" Manuf'd in "	32,275
	131,659

Home Shipments 11,967	
Foreign " 1,036	13,003
Lamps on hand May 1 <sup>st</sup>	118,656
Saleable stocks ready for shipment an increase of 16,000 lamps over last month	37,690

Home orders for month	6,743
Foreign " " "	10,967
	7,889

Yours truly  
Edison Lamp Co.

1883-05-01

EDISON LAMP COMPANY.

TOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. LYTTON,  
TREASURER.

EAST NEWARK

May 1 1883

Dear Mr. Editor

Mr. Donnell

spoke of a list of pressing bills. These are the most important. You should remember that we have not been paying bills for two months except minor ones that we were compelled to pay.

The following notes are coming due this month.

May 8 McKeown & Robbins	838.49
10 S. Benzmann Drs.	1451.29
16 E. P. Beckers	234.22
16 Salamander Works	511.44
17 Pratt Mfg. Co.	417.67
23 S. J. Milken	163.91
	<hr/>
	3617.02

Yours Truly

Francis B. Lytton



1883-05-02  
EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. UPTON,  
TREASURER.

EAST NEWARK, May 2 1883

Samuel Dwell Esq

Dear Sir:

Enclosed <sup>sheet</sup> you will find cost <sup>of</sup> for  
March. This I am con-  
fident ~~with~~ shows a cost  
rather over than under  
what can be done on making  
60,000 a month.

Our ledger shows that we  
made over \$4,000 on sales  
of lamps during March.

However and notwithstanding  
our bank balance and im-  
mediate liabilities show an un-  
equalled state of dead-broke  
advers.

Yours Truly

Francis R. Upton

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. LIPPIN,  
TREASURER.

111883-05-03  
EAST NEWARK, May 3, 1883

Dear Mr. Edison:

We are going to make a special 100 candle power lamp and treat it so as to give 150 candles and try it in place of col-  
cium light.

As I think I have recently mentioned owing to you, I will only add that we need some extremely small days you are making an effort, yet we have not yet felt the fruits of it.

Yours Truly

Francis R. Lippin.

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. UPTON,  
TREASURER.

117883-05-0  
Upton  
EAST NEWARK, May 4 1883

Thos. A. Edison Agent.

65 Fifth Ave.

N.Y. City.

Dear Sir:

On account  
of the hot weather the  
Lamp Factory will be closed  
during the months of July  
and August.

If you will notify  
the users of the lamps,  
that they may be guided  
in giving their orders, you  
will oblige.

Yours Truly

Francis R. Upton Treas.

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. WATSON,  
TREASURER.

EAST NEWARK, May 4, 1883.

Samuel D. Small, Esq.,  
65 Fifth Ave.,  
New York.

Dear Sir:

Regarding your  
remark that we were having  
all our notes due at once.

I call attention to the list  
that was sent you a few  
days since of our notes.

Considering that it has been  
nearly four weeks since we  
have paid any notes, I think  
that the sum due Benzmann  
and Ma Kesson & Robbins is small.

I shall look to you for the  
funds for these notes.

I expect to get the interest  
on the mortgage down stairs  
and from the Spanish Colonial.

I may be able to get the

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. WATSON,  
TREASURER.

EAST NEWARK, \_\_\_\_\_ 188

pay roll from Hartings, but it  
is doubtful if I can all.

I was mistaken in saying  
that ~~Benzmann's~~ notes Ma Kesson's  
note was due May 5, Saturday.

It is due Tuesday May 8  
and amounts to \$838.47

Benzmann's \$1451.27

for both of these we shall  
look to you for funds.

Yours Truly  
Francis R. Watson

11883-05-07

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT.  
FRANCIS R. UPTON,  
TREASURER.

EAST NEWARK, May 7 1883

*Upton*

Dear Insell

We must  
have some money or  
bust.

Yours Truly  
Francis R. Upton

1883-05-07

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. UPTON,  
TREASURER.

EAST NEWARK, May 7, 1883

Dear Mr. Edison:

The enclosed statement for April shows plainly the trouble we are in financially.

We ran behind \$2,044 during the month increasing our liabilities about \$1,000 and decreasing of the bill due us about \$1,000.

Against this we show about 16,000 more lamps in stock ready for shipment worth at least \$6,000.

Our orders on hand do not take enough range to make the business profitable.

The orders during the month were the smallest for a year. We need money very badly

1883-05-0

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. UPTON,  
TREASURER.

EAST NEWARK, \_\_\_\_\_ 188

as we are having maturing liabilities coming due, and very little money coming in from sales.

We are down to fighting weight, and can keep from running behind in cost of lamp on 6000 a week.

(Yours Truly)  
Francis R. Upton.

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. UPTON,  
TREASURER.

1883/105-09  
W. P. Upton  
EAST NEWARK, May 9, 1883

Saml. D. Merrill, Esq.

65 7th Ave. - N.Y. City.

Dear Sir:

The price of the 100 candle lamps will be, according to instructions, \$1.50 instead of ~~\$2.50~~, the price of the 50 candle lamps will be \$1.00 in place of \$1.50 as at present.

This reduction is made reluctantly as we have been at great expense to make these lamps.

I estimate that we have spent over \$2000 for various tools and experiments.

We have special socket forms, special jaws, special dies for carbon forms, special bulbs, special screws on the socket requiring special dies to make them &c.

Yours Truly  
Francis B. Upton

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. LYTTON,  
TREASURER.

EAST NEWARK,

1883

1883-05-10  
I will get up Holbreck at  
Adelphi of Russia to  
Dear Mr. Edison  
Mr. Johnson, Matthew  
D.C. write us that the price  
of platinum has advanced  
from 24 shillings an oz. Troy  
to 31/6 or an advance  
of \$1.87 an oz.

This they say is due to  
the largely increased demand.

They offer us up to 2500 oz. for  
delivery this year at 30/ of an  
oz. if we cable them accepting  
offer. They strongly advise  
our doing so as the price will  
go higher they think. We can  
take the platinum, when we  
may need it, before Jan. 1, 1884.

We are well stocked now  
yet it may be well to follow

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. LYTTON,  
TREASURER.

EAST NEWARK,

188

1883-05-10  
advice if we think the demand  
for lamps will be very large  
next fall.

This is rough on Maxim!

I shall do nothing in the mat-  
ter unless you ~~write~~ write  
me to accept their offer.

James Tuley  
Francis F. Lytton.



1883-05-19  
THE EDISON LAMP CO.,

RECEIVED

MAY 21 1883

ANSWERED

EAST NEWARK, N. J.

May 19 1883

FILE NO. ....

J. W. Edison

New York

Dear Sir,

Enclosed find  
sketch of armature core:  
- essentially a wooden core  
with splints of wire  
(insulated) wound around it  
The way in the frame is easily  
demagnetized, this property  
and the fact that there  
is less than usual will  
I think render it unnecessary  
to raise the brushes as high  
above the neutral point as  
is now necessary.  
If you think the

1883-05-19

THE EDISON LAMP CO.,

EAST NEWARK, N. J.

188

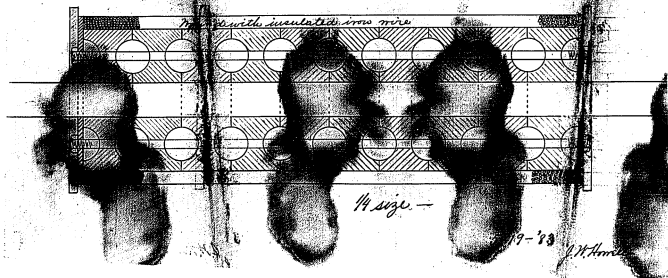
worth trying. I would ad-  
vise enclosing it in a  
to amateur as this phe-  
nomenon is more marked  
there than in the smaller  
machines.

Yours

John M. Howell

[ENCLOSURE]

1883-05-19



*with insulated iron wire*

*14 size -*

*19-13*

*L.H. Ames*

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
FRANK  
FRANCIS & LYTON,  
TELEPH.

EAST NEWARK, May 21 1883

Saml. Inwell Esq

Dear Sir:

We have  
tried a spiral 100 c. f.  
in a reflector and think  
that it works well.

The ones we made had  
too high volts for the  
Bijou Theatre. We are  
dressing them and hope  
to have these one or two  
ready by tomorrow.

Yours Truly  
Francis & Lyton

1883-05-21

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
FRANK  
FRANCIS & LYTON,  
TELEPH.

EAST NEWARK, May 23 1883

Dear Mr. Edison:

The names  
Nat. Long has been  
in our employ three  
years and we have  
found him reliable, intel-  
ligent and faithful.

He wishes a recommenda-  
tion signed by you  
as he thinks it will count  
for more than one by us.

Yours Truly  
Francis & Lyton

1883-05-23

1883-05-23

EDISON LAMP COMPANY  
THOMAS A. EDISON,  
PRES.  
FRANCIS X. UPTON,  
TREAS.

MAY 21 1883  
ANSWERED

EAST NEWARK, May 23, 1883

May 26, 1883  
FILE NO. ....

Dear Mr. Edison:

I have been thinking regarding meters lately.

I think the Lamp Factory should have the making of them and adjusting.

We can do it very readily as we have a good machine shop and a top-top master mechanic. We have every appliance for testing them including brains.

We shall before first when the lamps change and can make proper provision for adjusting to the volts req. required.

1883-05-23

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRES.  
FRANCIS X. UPTON,  
TREAS.

E. 2,

EAST NEWARK, ..... 1883

When an order comes in for a new plant the meters will need to be adjusted to fit the volts required. I think Benjamin will be willing to give them up as there cannot be a great profit in them.

If we take them to make we shall endeavor to make them as good as possible and shall standardize them before we send them away.

Yours Truly  
Francis X. Upton

1883-05-26

*W. R. POPE*

W. R. POPE, JUN 1 1883

**ELECTRICAL SUPPLIES,**

AGENCY  
WESTERN ELECTRIC CO.  
New York and Chicago

11 W. BALTIMORE STREET  
BALTIMORE, MARYLAND

RECEIVED  
MAY 28 1883  
ANSWERED

*sent about 1883*  
*the man for Regt S. S. Siders*  
*Mr. C. O. Schaefer*  
*to buy batteries*  
*Dear Mr. Pope*

*Will you please send*

me 2 of the small lamps, such as were used in production of the Opera of Salawitz, and 2 larger ones say double the size, that I may show them to the Committee here, and find out how many we need, so we may order them. After leaving you on Tuesday I went to Mr. Bergmans, and up to see son Ott, and got an explanation of the secondary battery need for the small lights, please let me know how soon you could furnish from 200 to 1000 of either kind of the lamps, I will

1883-05-25

W. R. POPE,

**ELECTRICAL SUPPLIES,**

AGENCY  
WESTERN ELECTRIC CO.  
New York and Chicago

11 W. BALTIMORE STREET.

BALTIMORE, MARYLAND 1883

*writes to Mr Bergman for price of Batteries.*  
*Yours very truly*  
*W. R. Pope*

(EDISON LAMP COMPANY)

THOMAS A. EDISON,  
PRESIDENT.  
FRANCIS R. UPTON,  
TREASURER.

EAST NEW

1883-05-31

May 31 1883

Saint Louis, Mo.

JUN 1 1883  
ANSW

.....183... We have shipped  
W. R. Upton for small lamps.

I have written him that  
we can make 1500 in  
three weeks after receipt of  
order.

We are now making a  
number and shall send  
you some of them. We wish  
you to have the best.

We have no order for  
Pops' or yours as yet.

Yours Truly  
Francis R. Upton.

#23-09-01.

# Monthly Statement

## THE EDISON LAMP CO.,

East Newark, N. J. June 1<sup>st</sup> 1883

Thomas A. Edison Esq.

To R. Wpton	advances	32488.62
E. & S. Co.	"	397.75
Bills due by us	"	31711.19
		64597.56

Bills due to us \$16064.98

Lamps on hand May 1 <sup>st</sup>	118656
" Mfgd in May	23660
	142316

Hour Shipments 21066

Hour " " 216 21284

Lamps on hand June 1<sup>st</sup> 83 121032

Hour Orders for month 11979

Hour " " " " 11979

Salable stock ready for shipment an  
increase of 6598 over last month

444288

Yours truly  
Edison Lamp Co.

## THE EDISON LAMP CO.,

East Newark, N. J. June 2<sup>nd</sup> 1883

Samuel Insull Esq.  
New York

The following is a record  
of our unpaid notes.

April 5 <sup>th</sup>	Mrs. Peter Mel. Agency	2 mo. due June 5 <sup>th</sup>	\$1315. <sup>52</sup>
" 21 <sup>st</sup>	J. E. Smith & Son	2 " " " 28 <sup>th</sup>	\$208. <sup>80</sup>
Meck 23	Peter Boyle	3 " " " 26 <sup>th</sup>	\$428. <sup>76</sup>
" 31 <sup>st</sup>	Howarth Bros	3 " " July 3 <sup>rd</sup>	\$388. <sup>86</sup>
April 3	And. Knit Jan Co.	3 " " " 6 <sup>th</sup>	\$214. <sup>50</sup>
" 23	Wm Murray	3 " " " 26 <sup>th</sup>	\$248. <sup>86</sup>
May 1	Patterson Bros	3 " " Aug 3 <sup>rd</sup>	\$344. <sup>52</sup>
" 4	Chapin Hall Mfg Co.	3 " " " 7 <sup>th</sup>	\$82. <sup>42</sup>
" 7	Peter Boyle	3 " " " 10 <sup>th</sup>	\$430. <sup>76</sup>
" 14	G. B. Luderman & Co.	3 " " " 17 <sup>th</sup>	\$621. <sup>60</sup>
" 18	Salamanca Works	3 " " " 18 <sup>th</sup>	\$207. <sup>46</sup>
" 21	Crowell & Co.	3 " " " 24 <sup>th</sup>	\$101. <sup>78</sup>
" 25 <sup>th</sup>	J. D. Crucible Co.	3 " " " 31 <sup>st</sup>	\$499. <sup>72</sup>

\$5989.10

Yours truly  
Edison Lamp Co.



Form No. 1.

1893-06-07

# THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS and DELIVERS messages only on conditions limiting its liability, which have been asserted to by the sender of the following message. It is not to be regarded as a receipt for the message, and the company will not hold itself liable for errors or delays in transmission or delivery of telegraphed messages, beyond the amount of tolls paid thereon, nor in any case where the claim is not presented in writing within sixty days after sending the message.

This is an UNREPLATED MESSAGE, and is delivered by request of the sender, under the conditions named above.

TIBOS. T. ECKERT, General Manager.

NORVIN GREEN, President.

NUMBER	SENT BY	RECV BY	CLASS	CHARGE
518	JK	W	15.00	17.00

Received at **852 BROADWAY.**

Dated Boston Mass 7 June 7 1888  
 To Mr Thomas A Edison 65 Fifth Ave  
 Where are our reflector lamps  
 We are in total darkness  
 So to speak please answer  
 ask Upton if he can make E. K. Hastings  
 Any more. Coiled 100 c p / lamps + if he can

This telegram has just been received at the office in 852 BROADWAY, just below Fourteenth Street, where any reply should be sent.

accomplish the object that the theatre people are getting

16

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EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. WYTON,  
TREASURER.

EAST NEWARK,

1883-06-13

June 13, 1883.

Dear Mr. Edison:

I note your information regarding probable plants. I think the Electric Light Co. should see in accordance with the contract that we receive suitable advances.

We are in a tight place for ready money just at present, as we have had no foreign orders and light home orders. We have never expected and count on a large fall business.

Yours Truly

Francis R. Wyton

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. UPTON,  
TREASURER.

1883-06-13

EAST NEW YORK, June 13, 1883.

Dear Mr. Edison:

We think that your 100 candle lamps will give perfect satisfaction in a short time. We have made some and found them right.

The last shipment we think will be found better than the first, as we have largely gotten over trouble with clamping.

The spiral 100 candle power lamp will be found adapted for side and head lights of ships.

Yours Truly

Francis R. Upton

1883-06-16.

THE EDISON LAMP CO.,

EAST NEWARK, N. J.

June 16<sup>th</sup> 1883

Mr. T. A. Edison

New York

Dear Sir

Lamps on hand (as)

of the following volts

Hamburg Volls		Central Station	
99 Volls	3,500	103 Volls	4,000
100 "	2,000	104 "	2,000
101 "	2,600	105 "	2,000
102 "	5,000		
	<u>13,100</u>		<u>8,000</u>

London Volls		Hamburg Volls	
106 Volls	2,000	Central Station	2,000
107 "	1,500	London Volls	4,500
108 "	1,000		
	<u>4,500</u>		<u>25,600</u>

Yours &c J. A. Habers

1893-06-19

THE EDISON LAMP CO.,

EAST NEWARK, N. J.

June 19<sup>th</sup> 1893

Paul Insull Esq.  
#65 Fifth Ave.  
New York

Dear Sir,

In answer to  
your favor of 14<sup>th</sup> inst.  
relative to straight Carbon  
Lamps for the General Co.  
We say that the Lamps  
that go forward to that  
Company in the future  
we hope will prove  
satisfactory in every  
respect. We are very  
sorry that they ever  
had cause to complain.

Yours truly,  
Edison Lamp Co. &

EDISON LAMP COMPANY.

TOMAS A. EDISON,  
PRESIDENT.  
FRANCIS B. SPENCER,  
TREASURER.

EAST NEWARK

1883-06-25

June 25 1883

Dear Mr. Edison:

Howell has tested 45 103 & 104 volt lamps that have recently been made just as he found them ready for shipment. The average of them all was .754 amperes. In Clarke's blue print 105 volts are given as taking .747 amperes.

I have given orders that all central station lamps in future be tested for both amperes and E.M.F. and that all taking over .80 amperes be thrown out.

This will prevent any

1883-06-25

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRES.  
FRANCIS B. UPTON,  
TREAS.

EAST NEWARK

188

8X17 getting into use.

It strikes me that the tendency will be to have the bills increase in any place from this reason. Lamps using more current are of poorer economy and probably long life. The good economy lamps will give out first and have these uneconomical ones burning. The tendency will be to have all uneconomical lamps in time. If we could for example make lamps that would last 20,000 hours and only put one in ten in a short time more than half of all.

883-06-253

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS A. LUTON,  
TREASURER.

EAST NEWARK

188

the lamps would be the  
20,000 hour ones.

I shall take my  
vacation during the first  
two weeks in July. This  
will be the first vacation  
of any length I have had  
since I have been with  
you.

Yours Truly  
Francis A. Lutton.

40 36 5



EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRES.  
FRANCIS B. UPTON,  
TREAS.

1883-06-26.

EAST NEWARK, June 26 1883

Dear Mr. Edison:

Regarding enclosed complaint  
Regarding packages C.B.  
219/21 we never sent  
any such and know  
nothing about them.

Regarding the C.B.  $\triangleleft$   
packages.

We sent you on the day  
of shipment from the factory  
a full shipping list and  
bill in each case. Copies  
of the same are enclosed.  
We took great care to  
carefully weigh each article  
and to give net and gross  
weights of packages.

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRES.  
FRANCIS B. UPTON,  
TREAS.

1883-06-26

EAST NEWARK, \_\_\_\_\_ 188

I am personally to blame  
for any omission in the  
fullness of the description on  
the bill. Mr. Dyer recalls  
distinctly that the original  
bills were sent the same day  
as the shipment. We are decidedly  
shagreened that, after we took  
extraordinary precautions to  
follow Mr. Bateheler's instruc-  
tions to the letter; by some  
means outside of our control  
Mr. Bateheler should have  
failed to receive his noti-  
fication.

Regarding the poor packing  
of carbon.

We sent two slating troughs,  
in one of which the large  
carbon forms were packed

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. UFFIN,  
TREASURER.

EAST NEWARK, N. J. 188

1883-06-26.  
E. 3.

They were wrapped in tissue paper and packed in saw-dust. The bottom of the other box was placed directly over the full box and was held in place by other articles.

The ~~saw-dust~~ packing case was filled completely and solidly with other material of unyielding nature.

We hold ourselves responsible for the broken forms and will send others to replace them when notified of the number claimed.

Regarding "monthly claim".

We have been in business ~~two~~ <sup>two</sup> ~~three~~ years and a half and shipping constantly, in all over 3000 packages

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. UFFIN,  
TREASURER.

EAST NEWARK, N. J. 188

E. 4.

have been sent. We have never received a complaint of breakage of lamps due to poor packing, we have never had a false count specifically brought to us; in no instance have we failed to send shipping lists and bills to you following instructions received from you, in two cases we have had ~~two~~ complaints of false judgement brought to us.

The first was as regards full tubes being packed in a cask coverways.

The second is the packing of 300 carbon forms.

Mr. Bradley saw the box

1883-06-26,  
E.S.

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. UPTON,  
TREASURER.

EAST NEWARK, \_\_\_\_\_ 188

checked and said at the time that he considered it good. The precaution was taken by Mr. Moffett to place two cleats across the boxes holding the forms and to nail them firmly so as prevent any shifting.

I consider that our father Mellick "has brains over and above what are necessary for this existence", as I have found him an exceedingly trustworthy man who tries in every way to do the best he can.

Yours Truly,

Francis R. Upton.

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRES'T.  
FRANCIS S. WELLS,  
TREAS'R.

1883-06-28

EAST NEW YORK, June 28 1883

Dear Mr. Edison:

Your favor of June 26<sup>th</sup> to hand.

My reasons for giving are somewhat different from those assigned by you in your letter.

I have found the present always so very tight for money and the future so very flimsy, that I thought possibly by dropping two weeks out of the present I could by some chance strike the beautiful future.

Yours Truly,  
Francis S. Wells

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRES'T.  
FRANCIS S. WELLS,  
TREAS'R.

1883-06-29

EAST NEW YORK, June 29 1883

Dear Mr. Edison: B if  
Are they good letters?  
not you had. We have  
on hand a large amount  
of a large portion of good  
nickel in the shape of  
forms. We feel positive that  
it might be good idea  
we shall present it again.  
Can we have Bachelors  
we guarantee payment  
we have an order for  
file for 36.00  
Lamps for  
Milan, we can ship them  
from stock, and are willing  
to risk payment. Have you  
any instructions?

Mr. Small has promised  
to take care of our finances  
while I am away.

Yours Truly,  
Francis S. Wells

THOMAS A. EDISON,  
NO. 65 FIFTH AVENUE.

1875-66-29

NEW YORK June 29 1882

Mr. Edison  
Dear Sir

Lamp factory should like to  
know how to connect the lamps  
with or without current.

Yours truly  
O. D.

J. A. [unclear]

[unclear]

1883-06-29

## EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRES.  
FRANCIS R. UPTON,  
TREAS.

EAST NEWARK, June 29 1883

Saml. Insull Esq

Dear Sir:

We have  
due us down stairs.

Illum. Co.	\$ 55	32	<u>65</u>
Isolated Co.	18	47	<u>45</u>
Canada Light Co.	3	60	
Western Co.		232	
		<u>797</u>	210

We expect to put in bills on  
your account for \$750  
and home orders 250  
1,000  
before Monday.

I want to pay about \$1,000  
in old bills as soon as possible.  
The most important bill  
is the Lehigh Valley Coal Co.  
for \$603 15

1883-06-29

## EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRES.  
FRANCIS R. UPTON,  
TREAS.

EAST NEWARK, 1883

This makes		
Today Sundry Accts	\$ 1000	
Monday Pay roll	1350	
" Note	588 <sup>50</sup>	
Thursday Note	914 <sup>20</sup>	
	<u>3853</u>	06.

This amount will carry  
us through until my return  
July 17.

You will confer a great  
favor by showing your  
skill in financing with  
small capital.

Yours Truly  
Francis R. Upton

[FROM SAMUEL INSULL?]

1883-07-02

Central Station

- Milan

July 2nd.

3

F. R. Upton, Esq.

East Newark, N. J.

Dear Sir:-

Referring to your favor of the 26th June, to Mr. Edison,  
I verbally cancelled the order for 3,000 B lamps for Milan sometime  
ago. I do not see that there is any use in your sending lamps  
there, and taking risks as to the payment. I think we can much  
better afford to keep the lamps here and use them in our home  
business.

Very truly yours,

Monthly Statement

1883-07-02

THE EDISON LAMP CO.,

East Newark, N. J. July 2<sup>nd</sup> 1883

Thomas A. Edison Esq.

H. R. Upton	advances	32991.02
E. E. Ill. Co.	"	504.90
Bills due by us		<u>33173.14</u>
		\$6669.06

Bills due to us \$14357.96

Lamps on hand June 1 <sup>st</sup>	121032
" Manufactured June	<u>33315</u>
	154347

Home shipments 10881

Foreign "	1650	<u>12531</u>
-----------	------	--------------

Lamps on hand July 2 <sup>nd</sup>	141816
------------------------------------	--------

Home orders 13644

Foreign "	3500	<u>17144</u>
-----------	------	--------------

Salable Votys ready for shipment \$2320

Yours truly  
Edison Lamp Co.



## EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANCIS B. UPTON, TREASURER.

EAST NEWARK, N. J.

1883-07-02

July 2<sup>nd</sup> 1883

## Statement

January 1 <sup>st</sup> 83 to	July 2 <sup>nd</sup> 1883	
Lamps on hand Jan 1 <sup>st</sup>	67562	
" Mfg to July 2 <sup>nd</sup>	229532	
	297094	
Order, Lamps sent to be Re-Ordered	18600	
	283494	

Home Ship <sup>out</sup>	127375	
Foreign "	48546	175921
Lamps on hand July 2 <sup>nd</sup>		107573

## EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANCIS B. UPTON, TREASURER.

EAST NEWARK, N. J.

1883-07-02

July 2<sup>nd</sup> 1883

## Stock Account

Wires 14600-015-	219.00	
S. Parts 35527-02-	1066.41	
Tools 187488-018-	2411.30	
Carbons 68676-03-	2060.25	
Plating 2832-08-	236.56	
Glass 4472-16-	718.52	
Exp. Aust 20160-25-	578.00	
Doctst 2224-28-	622.72	
Coating 826-30-	187.50	
Refring 107564-35-	37447.40	# 50916.99
Bamboo	1005.00	
Platinum	2189.92	
Glass Unpacked	2000.00	
Crosses Golding Casside	2000.00	# 7159.92
Coal Washers Ring etc		
Real Estate 26898.52		
Build. Returns 31049.05		
Mach Tool 44153.79		
Mercury 2000.00		# 104091.39
Cash Items		
Edison Co's for Lamps 6349.24		
Edison Agent 673.65		
Dund etc 329.38		
Cash on hand 1244.81		
	8598.29	
Wm Hoegger 4890.24		# 13488.63
		# 175656.93

Jan 1, 1883, \$26,178.66

## EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANCIS A. UPTON, TREASURER.

EAST NEWARK, N. J., 1883-07-02

2

We have orders for  
Foreign shipments

418	Lamps @ 1.50	622.50	
1192	" " 1.00	1192.00	
1000	" " .60	600.00	
300	" " 1.00	300.00	
250	" " .75	125.00	
			\$ 2839.50

U.S. Shipment

33	Sp Lamps @ 1.50	49.50	
49	" " 1.25	61.25	
1050	" " .60	630.00	
9225	" " .40	3690.00	
800	" " .25	200.00	
			\$ 4505.75
			\$ 7345.25

We have already shipped  
since we started in 1880

416604 Lamps

I am now running estimating  
roughly

30000	Lamps in the U.S.	England
7000	" "	Continent
20000	" "	other Countries
4000	" "	
81000	Total	

## EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANCIS A. UPTON, TREASURER.

EAST NEWARK, N. J., 1883 08 02

3

Cash paid in by Pastors	163011.41
" " " & R. Upton	32991.02
Lamp Sales 1880 to 1881	13175.29
" " Jan to June 82	35208.05
" " June to Jan 83	56021.44
" " Jan to June 83	78815.49
Total Cash Handled -	\$ 379222.73
Liabilities	\$ 33678.04
Total	\$ 412900.77

Lamps Sold #	183220.30
assets	178656.93
	\$ 358877.23

\* Loss  
since starting.

\$ 5403.54

# 412900.77

\* On Jan. 1 1883 \$ 29542.72

\$ 34023.54

Showing gain  
29517.18  
4,824.34  
24628.84  
This takes all our assets as saleable,  
which, if business is good, is fair to  
do.

## EDISON LAMP COMPANY.

1883-08-02

THOMAS A. EDISON, PRESIDENT,  
FRANCIS B. UFFON, TREASURER.

EAST NEWARK, N. J., \_\_\_\_\_ 188

4  
# Liabilities

F. R. Upton	32991.02
Edison Co's	5100.27

# 38091.29

Bills due July	4131.62
" " Aug	5189.66
" " Sept	6274.03
" " Oct	13082.46

# 28577.77

# 66669.06

Corning Glass Works	7654.45
Candlerbank & Son	126.00
Del + Hudson Canal Co.	3526.60
Bills Payable	16613.91
E. P. Backus	147.66
Chas Fruit Grow Co.	99.50
J. D. Crucible Co.	725.00
Saw Works	122.00
Bratt Mfg. Co.	293.70
J. P. Sayer Jr. Co.	881.00
Salhigh Valley Co.	603.15
H. B. Lindenmeyer	127.26
Watts Campbell & Co.	102.82
Small bills	1220.67

# 28577.77

# Jan 1, 1883.

F. R. Upton	27,021.62
Edison Co.	11,042.08

38,063.70

Outsiders

27,940.44

Total Jan 1, 1883

66,004.14

66,004.14

1883-07-06

Copy of letter to  
Winton

479

6<sup>th</sup> July 1883

J. R. Watson Esq:  
Edison Light Co.  
Newark, N. J.

My dear Winton

Enc. your letter to me of 16<sup>th</sup> May  
- says that you gave me a list of your regular sized  
films; you subsequently sent me 300 or 200 of each  
size of which the one set is  $8\frac{1}{2} \times 10 \times 1\frac{1}{2}$   
another  $8\frac{1}{2} \times 10 \times 1\frac{1}{2}$ . These films as you  
would know must be that size & that the  
you use is as per letter right?

I realize also that the 10 candle films are  $6\frac{1}{2} \times 9\frac{1}{2}$   
instead of as your letter says  $6\frac{1}{2} \times 9$ . The 100  
candle films you sent me are  $11 \times 7\frac{1}{2}$  instead of  
 $11 \times 7$  as your letter says. Is this right or do you  
want to phase off some old stock you have made  
a mistake in? because there is a considerable diff  
erence in sectional area.

You have sent me some  $6 \times 11 \times 1\frac{1}{2}$ ; what do they  
you do not mention them in your letter.

Yours  
J. R. Watson

1883-07-06

I have made an Order in favor of the State of Ohio  
to the Cashier of the 20,000 dollars out to the State  
the time I am working very hard. I am  
feeling you out very hard. I am  
feeling you out very hard. I am  
I shall get a lot of work. I cannot work.

Yours truly

1883-07-09

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ELECTRICITÉ

Grand Diplôme 482  
d'honneur  
PARIS 1881

IVRY-sur-Seine, le 9<sup>th</sup> July 1883  
5, RUE DU PARC.

C. T. Edison Esq.  
85 Fifth Avenue  
New York.

My dear Sir,

In reply to your question whether I pay  
for the use of my course I would say that he does not and  
what is more, all the courses he gave me in a book  
are absolutely worthless because he never gave me any  
also never gave me a course later than 15<sup>th</sup> October  
1881 which is 8 months ago.

Very truly yours  
Chas. Batchelor

E. S. Upton  
E

Upton  
Return  
after perusal  
Dudell

#

July 8<sup>th</sup> 1893  
Elihu Batchelor

Francis R. Upton

not sending cur-  
ves

Let Upton  
Keep this  
Gay I like  
Batchelor card

E

10/11/11  
10/11/11  
10/11/11

SOLELY INDEPENDENT COMMERCIAL EDISON

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. UFFEN,  
TREASURER.

EAST NEWARK,

1883-07-12

July 12<sup>th</sup> 1883

Samuel Insull Esq.  
New York

Dear Sir:-

Yours of the 5<sup>th</sup> inst-  
rec'd. In reply would say  
that we have never experienced  
any difficulty in using the 100 lb.  
Carbon Forms. We shipped  
Mr. Satchel our best stock  
& consider them far superior  
to the Nickel forms in every  
respect. Mr. Satchel remarks  
about our fibres being irregular  
somewhat at first sight and I  
immediately gave the matter a  
thorough investigation & found our  
fibres all in every respect. W. H. P. 12/2/83



EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. UPTON,  
TREASURER.

EAST NEWARK,

1883-07-17

July 17 1883

Samuel Insull Esq.

Dear Sir:

Your of  
5<sup>th</sup> inst. to hand.

The carbon forms as  
first made warped in  
baking. We gave Mr.  
Bataillon the heat we  
had at the time. We  
can make them straight  
at present.

If Mr. Bataillon would  
like to buy some nickel  
forms we will sell him  
new ones that have never  
been in the fire for  
\$150 a pound, which  
is less than the sheet

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. UPTON,  
TREASURER.

EAST NEWARK,

1883-07-17.

188

nickel coats.

Holzer has investigated  
the size of fibres and  
has found no discrepan-  
cy. The mirror gauge  
in Mills room to my  
knowledge comes to the  
dot every time on fibres  
taken at random from  
those now cutting.

Bataillon's curves are not  
up to ours. For money we  
can have as pretty a sheet  
as his. I do not like the  
absence of heavy vertical lines.

Yours Truly  
Francis R. Upton.

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. UPTON,  
TREASURER.

1893-07-17

EAST NEWARK,

July 17, 1893

Dear Mr. Edison:

I do not think it wise to employ men that know the value of knowledge gained, as this applicant would.

Yours Truly  
Francis R. Upton

EDISON LAMP COMPANY.


THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. UPTON,  
TREASURER.

1893-07-17

EAST NEWARK,

July 17, 1893

Dear Mr. Edison:

I shall make  full investigation of the conditions involved in making special lamps for the Central Station and will report to you the results.

Yours Truly  
Francis R. Upton

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. SPEER,  
TREASURER.

EAST NEWARK, July 20 1883

Paul Small Esq

Dear Sir:

Regarding  
Mr. Batchelor's letter.

The test of the Swan lamps shown in the letter of July 2, is not favorable to the Swan lamp. The economy at 16 c. p. is given as 7.9 per H. P. and the average life is only 575 minutes. This is about the same as the poorest we have ever made.

Regarding pump room report. His per cent given of breakage if it includes everything taking receipts to judge from is about the

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. SPEER,  
TREASURER.

EAST NEWARK, July 20 1883

same as ours. If it is the number actually put on the pumps it is more than ours slightly. His classification of breakage is all right. We are keeping a similar list to compare with his. We have as small a breakage as we have ever had. We find that we can only watch every point in manufacturing and if there is any more breakage than usual take special care. With good customs and good glass and glass work, the breakage in the pump room is as small as we can ask for, as the men there are careful.

Regarding the variation in the size of our fibres.

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. UPTON,  
TREASURER.

EAST NEWARK, \_\_\_\_\_ 188

1883-07-20  
E.

There may have been an error in giving him  $\frac{8 \times 14 \frac{1}{2}}{1,000}$  instead of  $\frac{8 \times 13 \frac{1}{2}}{1,000}$ . It is not a material error. I

think that the fibres are cut very close over to standards.

— Regarding the size of fibres.

The sizes sent him of 50 and 100 candle power lamps were expressly mentioned as experimental. We have found the utmost difficulty in standardizing lamps owing to the various carbonizations.

Hewell has carefully gone through the sizes of fibres before and after carbonization. Mr. Batehelen is right, according to our measurements in his discovery that the shrinkage

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. UPTON,  
TREASURER.

EAST NEWARK, \_\_\_\_\_ 188

1883-07-20  
E. F.

in length is different in degree from the shrinkage in width and thickness. Yet we are unable to ~~possibly~~ find any marked difference in the shrinkage in width and thickness.

We work more to the candle per H. P. in proportioning lamps, yet as you will see from Hewell's table that the surface bears a direct relation to this.

Yours Truly  
Francis R. Upton

1883-07-21

EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANCIS R. APTON, TREASURER.

EAST NEWARK, N. J.,

July 21 1883

Saml. D. Small Esq.

Dear Sir:

The letters  
of Mr. Batchelor are having  
careful attention. I want  
to have one or two ex-  
periments made before  
deciding regarding them.

Yours Truly  
Francis R. Apton.

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. WATSON,  
TREASURER.

EAST NEWARK, July 23 1883.

Dear Mr. Edison:

The enclosed statement shows our financial standing.

We have practically taken in no money except from lamp sales and my loan, and we are the same amount July 1, as on Jan. 1.

This gives us all the improvements we have made in our buildings and fixtures, Machinery and Tools, and increase of stock for profit. We have paid our taxes, interest on my loan, interest on mortgage, and charged depreciation at 12% per annum on Buildings, Fixtures, and Machinery and Tools as an expense in our lamp account.

1883-07-23

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. WATSON,  
TREASURER.

EAST NEWARK, \_\_\_\_\_ 188

2

Yet we have no cash and are struggling from hand to mouth to meet every little payment that we make.

Yours Truly,  
Francis R. Watson.

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRES.  
JACOB S. UPHAM,  
TREASUR.

EAST NEWARK, July 24 1883.

Saml. I. Merrill Esq.  
65 Fifth Ave. N.Y. City.

Dear Sir:

We are very badly in need of money. Our orders are exceedingly badly assorted and bring in shipments slowly. We are compelled to make so many unsaleable lamps on present orders, that we are very tight for money.

For example we are behind our orders for A. lamps on 97 and 98 V about 1200 lamps and have no orders except for these volts on this cut.

We have an order in for 1000 10 cfs. lamps for S. H.

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRES.  
JACOB S. UPHAM,  
TREASUR.

EAST NEWARK, \_\_\_\_\_ 188

22

We cannot touch it except with about  $\frac{1}{5}$  of the 10 c. P. lamps made.

We are thus practically without orders. This means that you will have to furnish us with the money for running.

I intended to shut down, Mr. Edison decided no, and agreed to become responsible for our pay-rolls. If you can raise the money, I think by all means it is best to keep going as the indications are that by Sept. 1 we shall have orders to clear us, and bring in a handsome surplus. I am fairly at the end of my resources. We pay no

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT.  
FRANCIS R. UPTON,  
TREASURER.

9.3.  
EAST NEWARK, \_\_\_\_\_ 190

bills except old ones.

During the next two weeks  
we shall probably have to  
call on you for \$2500  
outside of lamp sales.

Yours Truly  
Francis R. Upton.



1883-07-27

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. UPSON,  
TREASURER.

EAST NEWARK,

July 27 1883

Lamb. Merrill, Secy.

Dear Sir:

Following is the  
list of notes due in Aug

Aug 3	344	<u>32</u>
Aug 7	82	<u>42</u>
Aug 10	430	<u>21</u>
Aug 17	621	<u>50</u>
Aug 18	207	<u>46</u>
Aug 24	101	<u>25</u>
Aug 31	499	<u>24</u>
	<u>2286</u>	<u>90</u>

These notes were all contracted  
last May. Three with present  
value will make \$3750—  
to draw in Aug. outside of pay-

We have for a fund  
to draw on the following  
list

1883-07-27

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. UPSON,  
TREASURER.

EAST NEWARK,

188

J. 2

Illum Co.	4193	<u>60</u>
Benjamin Co.	40	<u>50</u>
Isolated Co.	3145	<u>60</u>
T. A. E. Agent Net	750	
	<u>\$8129</u>	<u>70</u>

I do not see my way out  
of the hole unless we  
have some heavy orders  
during the coming month.  
I intend to close down  
the whole factory if we  
have no orders as I do  
not dare risk running  
full time. We are now  
carrying a very heavy stock,  
that will enable us to fill  
many orders without making  
more lamps.

1883-07-27

9.3.

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. UPTON,  
TREASURER.

EAST NEWARK, ..... 188

Conning has just accepted  
another six months note  
on an account over two  
months old.

Yours Truly  
Francis R. Upton.

Monthly Statement 1883-08-04  
 THE EDISON LAMP CO.,

East Newark, N. J., Aug 1<sup>st</sup> 1883

Thomas A. Edison Esq.

F. R. Upton	advances	33275.59
E. E. Bell & Co.	"	504.90
Bills due by us		<u>34480.70</u>
		\$ 68261.19
Bills due to us	\$ 16814.57	
Lamps on hand July 2 <sup>nd</sup>		141816
" Mfg in July		<u>16481</u>
		158297
Home Shipments	04336	
Foreign	<u>2295</u>	<u>16631</u>
Lamps on hand: Aug 1 <sup>st</sup>		141666
Home orders	6744	
Foreign	<u>950</u>	
	7694	

Yours truly  
 Edison Lamp Co. N. J.

1883-C8-06

FROM

THOMAS A. EDISON,  
No. 65 FIFTH AVENUE,

New York, Aug 6<sup>th</sup> 1883


TO

EDISON LAMP CO.,

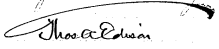
MENLO PARK, N. J.

Foreign Order No. 172

Gentlemen

Please Ship through  
 Bayward Perry & Franklyn.  
 1000-8 bundle Power carbons   
 1000-10 " " "  
 1000-16 " " "  
 1000-32 " " "

These carbons are to be of the latest  
 carbonization, I dated Economy.  
 Will forward Shipping directions as quickly  
 as possible

Yours truly,  


(116)

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. UFFEN,  
TREASURER.

1883-08-15

EAST NEWARK, Aug 15 1883

Dear Mr. Edison:

The enclosed memo. shows that you owe the Lamp Co. \$1847 <sup>21</sup> for lamps shipped.

We need \$1,200 ~~00~~ this week

Today	\$ 400 <del>00</del>
Friday Note	600 <del>00</del>
Saturday Note	200 <del>00</del>
	<u>1200 <del>00</del></u>

Friday Aug 24 Note	100
" Aug 31 Note	500
	<u>1500 <del>00</del></u>

On Saturday Sept. 8 we expect to need \$2500 ~~00~~ for casing. We shall undoubtedly have bills in for more than this amount if before

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS B. UFFEN,  
TREASURER.

1883-08-15

EAST NEWARK, \_\_\_\_\_ 188

this date as we have orders in for \$1750 ~~00~~ more, which we shall be able to ship.

If the U. S. Cos. pay us <sup>our</sup> bills promptly we can meet our pay rolls until Sept. 12, without calling on you.

We desire that you see that we have the monies mentioned on the dates indicated.

Yours Truly  
Edison Lamp Co.  
T. R. U.

1883-08-18

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. UPTON,  
TREASURER.EAST NEWARK, Aug 18 1883

Dear Mr. Edison:

In reply  
to yours of Aug. 17.

We understand that the orders for fibres and carbons are separate. Mr. Batchelor wrote us a letter saying that he should order 30,000 fibres, which is about the number covered by the two orders.

I distinctly understood you and Mr. Russell to say, that we should write to Mr. Batchelor and quote prices, and that you would send us the orders without quoting the price.

You also criticized the prices of the larger fibres.

1883-08-18

EDISON LAMP COMPANY.

THOMAS A. EDISON,  
PRESIDENT,  
FRANCIS R. UPTON,  
TREASURER.

EAST NEWARK, \_\_\_\_\_ 1883

We revised our price list and quoted these at a lower figure

	<u>fibres</u>	<u>carbons</u>
B	2 1/2 cts. each	3 1/2 cts. each.
A	4 " "	5 1/2 " "
32 c.p.	5 " "	6 1/2 " "
50 c.p.	5 1/2 " "	7 1/2 " "
100 c.p.	6 1/2 " "	9 " "
10 c.p.	5 " "	7 " "

I have reduced the price of carbonizing below cost, if he pays the price of the fibres, so as to tempt him to have his carbonizing done here.

I have kept up the price of the regular A and B as the order is mostly for these and reduced the price of the larger fibres so as to be very low.

Yours Truly, Francis R. Upton

## EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANCIS R. UPTON, TREASURER.


EAST NEWARK, N. J. Aug 22, 1883.

1883-08-22

Dear Mr. Edison:

We think we should receive the orders for the fibres and carbons from Rentchler. We are working on the orders in anticipation of receiving them, ~~and~~ the orders state nothing regarding price we are not limited in the price.

Yours Truly  
Francis R. Upton.

Will you know what  
this 

## EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANCIS R. UPTON, TREASURER.

EAST NEWARK, N. J. Aug 25, 1883

1883-08-25

Saml. Merrill Esq,

Dear Sir:

We expect to bill about \$1250- to Antwerp next week.

This will make you owe us about \$4000- or enough to pay all our notes until Sept. 27. If Conroy accepts the note, just sent them, we expect to pay out nothing except to meet notes and pay-rolls next month, unless we have some large orders to warrant us paying bills.

The orders from the Insulated Co. should about meet our pay-rolls.

Yours Truly  
Francis R. Upton.

## EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANCIS S. UPTON, TREASURER.

EAST NEWARK, N. J., Aug 25 1883

Friend - I would like to  
65 Fifth Ave, N.Y.C.

Dear Sir:

The following  
is a list of the sums due  
us today:

Illuminating Co. N.Y.	\$4923. <sup>55</sup>
" " " " " " "	104. <sup>55</sup>
" " " " " " "	75. <sup>35</sup>
Isolated Co.	1319. <sup>45</sup>
Edison Light Co. Canada	277. <sup>41</sup>
" " " " " " "	140. <sup>27</sup>
" " " " " " "	965. <sup>58</sup>
" " " " " " "	40. <sup>50</sup>
Benjamin Deo.	
Thos. A. Edison Agent	3131. <sup>31</sup>
	<hr/> 10,980. <sup>28</sup>

Yours Truly  
Edison Lamp Co.  
F. Upton.

## EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANCIS S. UPTON, TREASURER.

EAST NEWARK, N. J., Aug 27, 1883

Dear Mr. Edison:

The enclosed  
lists show our financial stand-  
ing. As stated in my letter  
of Aug. 25, to Mr. Driscoll  
we shall be able to get  
along by meeting our pay-  
rolls and notes during the  
coming month. I hope that  
orders will come in sufficient  
quantities, to warrant us in pay-  
ing coming in cash and to  
meet all liabilities without  
using any more notes in the future.  
We have gained \$2000 this  
month on our bills so far.

Yours Truly  
Francis S. Upton



EDISON LAMP COMPANY.

1883-09-31

THOMAS A. EDISON, PRESIDENT,  
FRANCIS C. UFFER, TREASURER.

EAST NEWARK, N. J.

Aug 31, 1883

Dear Mr. Edison:

*Will*  
In reply to your letter of Aug. 30. If we can control the foreign trade by any reduction in the price of the lamps, down even to our present cost, I am strongly in favor of it.

First comes the fact that we can make the lamp cheaper in large quantities than in small. For example March 1883 making 54,000 lamps the cost per lamp was 29.3 cts.

In July 1883 making 14,282 lamps the cost was 45.4 cts.

If we could have orders for 100,000 a month the cost I feel sure would be less than 25 cts.

EDISON LAMP COMPANY.

1883-09-31 E. 2.

THOMAS A. EDISON, PRESIDENT,  
FRANCIS C. UFFER, TREASURER.

EAST NEWARK, N. J.

188

In many large mills, I have been informed that they sell certain standard lines of goods at cost, that they may bring down the general expenses on certain lines of goods where they make a profit. The lamp business is almost precisely like the standard fabric business. We make one article in large quantities, by subdivision of labor.

The best offer we can make will be the one suggested by you the present American price, and share the profits below thirty-five cents cost. This will give us five cents overhead and of the balance one half.

The true way to make money I believe is to do so

## EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANCIS H. WATSON, TREASURER.E. 3  
1883-08-31  
EAST NEWARK, N. J., \_\_\_\_\_ 188

Large amount of business, that your profit will be sufficient selling at a price that parties starting in on a small factory cannot make money at.

The demand from Europe comes exactly at the right time. It is ahead of the demand here and comes in our dull season, so as to give them time to receive the lamps.

If we can get the trade for a few years we will bind them down to so narrow a range of volts as to make it impossible for them to do anything with a new factory and make money. We shall also have as

## EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANCIS H. WATSON, TREASURER.E. 4  
1883-08-31  
EAST NEWARK, N. J., \_\_\_\_\_ 188

large a demand for renewals as to ~~make~~ <sup>bring</sup> them wholly in our power. For if we refuse to give them lamps, this business will be ruined.

We shall need very much a larger market in the next few years, as it will take some time for the U. S. to take 100,000 a month. I think it will be three years.

Yours Truly

Francis H. Watson

100,000 a month is about our present capacity with no new buildings or tools.

~~Monthly Statement~~ 1883-09-01  
THE EDISON LAMP CO.,

East Newark, N. J., Sept 1<sup>st</sup> 1883

Thomas A. Edison Esq-

J. R. Upton	advances	32951.04
E. E. Ill. Co.	"	504.90
Bills due by us		<u>31866.29</u>
		# 65822.23

Bills due to us \$22290.76

Lamps on hand Aug 1 <sup>st</sup>	141666
" Manuf <sup>d</sup> in "	<u>21569</u>
	163235

Home shipments	16856	
Foreign "	10345	27231
Lamps on hand Sept 1 <sup>st</sup>		<u>136004</u>

Home orders	19037	
Foreign "	13600	
		<u>32637</u>

Yours truly  
Edison Lamp Co. D.

1283-09-11

EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANK A. UPTON, TREASURER.

SEP 20 1883

EAST NEWARK, N. J., Sept 11 1883

Dear Mr. Edison:

Regarding price  
to foreign countries:

To any company that will  
agree to take all their lamps  
of us for five years from  
the ~~order~~ signing of contract;

I am in favor of quoting  
40 cts. per regular A and B  
lamp delivered free of all  
freight charges at Ham-  
burg, Antwerp, Genoa and  
Liverpool. We will also  
guarantee an average life  
of 800 hours, using the standard  
6.5 mile

Yours Truly  
Francis R. Upton

EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANCIS X. WATSON, TREASURER.

1883-09-11  
EAST NEWARK, N. J., Sept. 11 1883

Dear Mr. Edison:

In view of  
Mr. Batchelors letter you will  
telegraph him:

Three hundred dollars ten  
thousand fibres confirmed.

We did not consider that  
his order came under our letter  
of May 14, yet on reading  
the letter over more carefully  
we find that he is right in  
his view.

We send you a corrected  
bill amounting to \$530<sup>00</sup> instead,  
\$633<sup>00</sup>.

Yours Truly  
Francis X. Watson.

THOMAS A. EDISON,  
NO. 65 FIFTH AVENUE.

1883-09-12

NEW YORK, Sept. 12 1883.

Dear Mr. Edison:

In lots of 10,000 lamps I think it best to quote 40 cts. per lamp for regular A and B lamps.

In lots of 25,000 I think best to quote the same price and deliver free in Hamburg, Antwerp, Genoa or Liverpool.

Other prices same as in America

10 candle lamps 50 cts

22 " " " 60 "

50 " " " \$1.00

100 " " " \$1.50

Yours Truly,

Francis P. Wpton.

P.S. Change price of 10 cp. from 50 cts. to 50 cts.

8 cp. B. " 40 " " 35 "

The latter only when 10,000 or 25,000 are ordered each of this kind.

1883-09-21

EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANCIS F. UPTON, TREASURER.

EAST NEWARK, N. J., Sept 21, 1883

Dear Mr. Edison:

Mr. Hutchinson  
wants some specimens of  
bamboo to give away at  
Louisville. I have informed  
him that you dislike to give  
away anything.

We have passed our pay-  
roll two days, and while  
writing this note three have  
come to the office for days  
It's bad work.

Yours Truly  
Francis F. Upton.

Don't give any  
samples

EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT.  
FRANCIS R. UPTON, TREASURER.

1883-09-28

EAST NEWARK, N. J., Sept. 28 1883

Samuel Inoullkey

Dear Sir:

We cannot  
make the 32 cfs. best to include  
transportation as well as the  
other styles of lamps.

We require an order  
for 5 32 cfs. before ship-  
ping.

How about Genoa lamps?

(Yours Truly)  
Francis R. Upton Pres.



Monthly Statement 1883-10-01  
 THE EDISON LAMP CO.,

East Newark, N. J. Oct 1<sup>st</sup> 1883

Thomas Edison Esq.

To R. Upton	Advances	33414.21
E. & S. Co.	"	504.90
Bills due by us		<u>29687.51</u>
		\$ 63606.92

Bills due to us \$ 22705.70

Lamps on hand Sept 1 <sup>st</sup>	136004
Deduct High Volt Lamps to be Re-ordered	<u>32387</u>

Lamps manufactured in Sept	103617
	<u>26599</u>
	130216

Home Shipments 18790	
Foreign " 1250	17045
Lamps on hand Oct 1 <sup>st</sup>	<u>113171</u>

Home orders for months 18781	
Foreign " " " 2300	21031

Yours truly  
 Edison Lamp Co. D

...an Piss  
... J. Johnson Vice-Pres  
E. P. Fiskel Treas  
C. Goddard Secy

ork October 1st. 1885

1883-10-01

Thomas A. Edison, Esq.

Brockton, Mass.

Dear Sir:-

Everything is arranged with Mr. Upton about the Canadian Lamp Factory except the carbons. Mr. Dyer and I agree in the opinion that if we send any more carbons into Canada from here we shall destroy the Canadian patents on carbons. I hesitate to do that. Mr. Upton says he would not undertake to make the lamps in Canada unless the carbons were sent there from here. Please give me your opinion on this question, namely, ~~shall we send the~~ carbons from here and destroy the Canadian patents on carbons?

Very truly yours,

President.

*Handwritten note:*  
I would like to ask  
them if the electric house  
go to Canada & put up  
furnaces & in 3 or 4 Runs  
we could turn out 25,000  
Carbons enough to last a  
year & the expense would not  
be very much.

[POSTMARK: OCTOBER 19, 1883. TO ALFRED O. TATE]

EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANCIS R. UPTON, TREASURER.

EAST NEWARK, N. J., Oct. 13, 1883

Dear Mr. Edison:

I have carefully thought over the conditions involved in the order received recently from England.

In consideration of the proposed use of the Swan lamps to the exclusion of the Edison lamps; I think we should write them that the terms of the circular letter regarding prices of lamps, issued by you last month, will be modified so as to cover orders running over a period of three months.

Yours Truly,  
Francis R. Upton.  
No. 10

Dear Sir,

RECEIVED  
OCT 20 1883  
ANSWERED

FILE No. 123

sf. Lamp account  
Proof sent sometime ago

Wm. J. ...  
G. P. ...

EDISON LAMP COMPANY. 1883-10-23

THOMAS A. EDISON, PRESIDENT.  
FRANCIS B. UPTON, TREASURER.

EAST NEWARK, N. J., Oct. 2-3, 1883.

Dear Mr. Edison:

The price of frosted lamps has been reduced in all cases to a charge of five cents over the price of lamps unfrsted, no matter how large the order.

We are very sorry that the 32 candle power lamps should break so badly. We will send Mr. Jenks five more to replace the broken ones.

We take special pains in packing these lamps.

Yours Truly  
Francis B. Upton.

Why dont you ...  
Lamps & ...  
Roughly ...  
© Edison ...

1883-10-25

**Sullivan & Cromwell,**

ALBENOR S. SULLIVAN,  
WM. NELSON CROMWELL,  
ISAAC CARBILLO,  
WILLIAM J. CURTIS.

*Law Offices  
Orceel Building, Wall Street,  
New York*

October 25th., 1883

T. A. Edison, Esq.,

My dear Sir:-

I am informed by my client Mr. F. R. Upton that he has agreed upon the terms of the purchase of the interest of Mr. McLoughlin, in the Lamp Co.

Upon making inquiry into the legal status of the so-called Company, I was surprised to learn that its affairs were not clearly defined in writing, and that each of the partners depended upon tradition, and the honor of his associates to establish his actual interest in the business; that the personal property was nominally owned by the Company, while the real property, as in your name, and in case of your death would descend to your heirs; that there is not even a declaration of trust in favor of your associates. The Company is in such condition that the death of any member of the firm would bring with it untold and most undesirable results. Any member of the firm may at present give the obligation of the Company, whether the person who owns a majority of interest or the Superintendent who owns only three percent. The power of the latter gentleman is as great as your own, as he is, in law, the agent for all the others.

It is at present within the power of any member to put the business into the hands of a Receiver with all its attendant evils and disastrous consequences to the individuals in interest, the Light Companies and all concerned.

Moreover I am compelled to advise Mr. Upton, that Mr. McLoughlin cannot deliver any evidence of title. He has nothing which defines his interest, nothing which will avail Mr. Upton in proving what he purchased.

As some action is rendered necessary to enable Mr. McLoughlin to complete his sale I think it is but simple justice to yourselves and your posterity to place the business in proper form.

T. A. E. 2.

1883-10-25

This may be very easily accomplished in two ways: (1.) by organizing a stock Company and conveying all the property, both real and personal to it; (2.) by signing articles of partnership which shall simply but explicitly define the interests of each; the life of the firm, the powers and duties of each and such other limitations as are advisable.

The first method is by far the best as a stock Company perpetuates itself. If there is objection to this method the second should be adopted at once. There are too many interests at stake and too much property involved to allow a continuance of the present careless methods.

I think these suggestions will commend themselves to your judgment and that you will cooperate with Mr Upton in putting this matter into shape, and enable him to complete his purchase.

It is probably a familiar principle to you that the sale of the interest of any member of a firm creates a dissolution, so that a reorganization seems imperative.

The reform I suggest will be doing simple justice to yourselves, and will place your great undertaking in a position where the happening of any unfortunate event will not destroy your business or cripple your great enterprise.

Please give this subject your earnest consideration and advise me at your earliest convenience of your conclusions.

Yours very truly:

*W. J. Curtis*

THE EDISON ELECTRIC LIGHT CO.,  
65 FIFTH AVENUE.

1883-10-27

New York, Oct. 27 1883

Saml. Insell Esq.

Dear Sir:

The Lamp Co.

need in order to meet  
their pay-roll due on  
Wednesday and the  
expenses of the Canadian  
factory \$1450<sup>00</sup> today.

Yours Truly  
Francis R. Apton.

EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANCIS R. APTON, TREASURER.

1883-10-31

EAST NEWARK, N. J., Oct. 31, 1883.

Thos. A. Edison, Pres.

Edison Lamp Co.,

65 Fifth Ave. N.Y.C.

Dear Sir:

I have this  
day received from the Edison  
Lamp Co. three notes signed  
by you payable to my order.

\$54 due Apr. 3, 1884 for	\$3090 <sup>00</sup>
55 " July 3, 1884 " "	4180 <sup>00</sup>
56 " Feb. 3, 1884 " "	2750 <sup>00</sup>

The amounts of these notes less  
the interest is to be deducted  
from my loan to the Lamp Co.

I shall apply these notes in  
payment of Wm. MacLaughlin  
for an assignment of his interest  
in this concern.

Yours Truly  
Francis R. Apton.

1883-11-01

THE EDISON LAMP CO.,

East Newark, N. J., Nov. 1, 1883

Thos. A. Edison, Agent.

Dear Sir:

The letter from the ~~President~~ Societe' Electrique Edison concerning regarding the life of the lamps has received careful attention.

The lamps sent abroad have all been of most excellent quality. The same class of lamps are in use in various places in this country and are giving satisfaction.

We beg leave to call to your attention the well known necessity of good regulation so as to not run the lamps at too high candle power. From a large number of life tests we have established the following table as to the duration of lamps <sup>run</sup> at various candle powers. This table assumes that ~~a~~ regular 16 c. p. A lamps will last 1000 hours on an average. If the lamps are burned at either lower or higher than ~~a~~ nominal candle power the life of



1873-11-01  
J. A. S. 2

THE EDISON LAMP CO.,

East Newark, N. J., ..... 188

The lamps will be increased or diminished  
accordingly

If burned at	the lamps will last
10 candles	5560 hours
11 "	3963 "
12 "	2857 "
13 "	2134 "
14 "	1628 "
15 "	1292 "
<u>16</u> "	<u>1000</u> "
17 "	802 "
18 "	651 "
19 "	534 "
20 "	443 "
21 "	371 "
22 "	312 "
23 "	266 "
24 "	228 "
25 "	196 "
30 "	103 "

## THE EDISON LAMP CO.,

East Newark, N. J., \_\_\_\_\_ 188

It should also be remembered that two candles variation in a light is scarcely noticeable.

We have a set of regular lamps now testing at 16 candles and the regulation of the current is very closely watched.

This is the record

12 lamps taken from regular run set up April 6, 1883. at 16 candles.

First lamps broke after burning 796 hours

Second " " " " 1120 "

10 lamps burning at close of factory Oct. 31 having burned 1773 hours. at 16 candles.

These lamps are by no means the best we have made, judging from tests made at a higher candle power, we consider them as poor as any made at that time.

We think the lamps we are making today are more than twice as good as the lamps in this set.

Yours Truly Francis X. Upton.

Monthly Statement (283-11-01)  
 THE EDISON LAMP CO.,

East Newark, N. J. NOV 1 <sup>st</sup> 1885

Thomas A. Edison Esq.

# R. Wotton		24471.59
Bills due by us		<u>28296.18</u>
		\$52767.77

Bills due to us \$22031.28

Lamps on hand Oct 1 <sup>st</sup> 113191  
 Lamps sent from Packing Room  
 to on Rehaunted & broken up 12048

Lamps manuf'd in Oct	101126	
	36879	losting \$8950.34
	<u>138005</u>	

House Ship <sup>units</sup> 16050

Foreign " 30400	46450	Bringing \$20037.15
Lamps on hand NOV 1 <sup>st</sup>	91555	

House Orders for month 14818

Foreign " " "	27570	<u>42318</u>
---------------	-------	--------------

Yours truly  
 Edison Lamp Co. & Co.

1883-11-07

# THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS and DELIVERS messages only on conditions limiting its liability, which have been accepted by the sender of the following message. Errors can be guarded against only by repeating a message back to the sending station for confirmation, and the company will not hold itself liable for errors or delays in transmission or delivery of Unrepeated Messages, beyond the amount of tolls paid thereon, and in any case where the claim is not presented in writing within sixty days after sending the message.

This is an UNREPEATED MESSAGE, and is delivered by request of the sender, under the conditions named above.

TBOG, T. ECKERT, General Manager. NORVIN GREKN, President.

NUMBER	SENT BY	RECD BY	CHECK
349	Ch	18band	

Received at: Proo R S 7270 Nov 7 1883.

Dated: New York

To: Saml Insull

For Armington & Sims  
Lipton wants four thousand dollars  
for pay roll Hastings will give  
it if you pay so reply quick  
Tate.

EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANCIS B. SPEER, TREASURER.

EAST NEWARK, N. J., Nov. 7, 1883.

Thos. A. Edison, Esq.,

Dear Sir:

OK

Mr. Batchelor's

letter of Oct. 22 to hand.

We have not slighted your orders. We have given them the same quality of lamps that are in use in this country.

We think that we can stand any competition as to quality. I consider that we have given the Paris Co. in the shape of information, what is as good as \$50,000. and this is the thanks we get.

In future we hope no information of any kind will be given.

I have just given Holger

EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANCIS B. SPEER, TREASURER.

EAST NEWARK, N. J., \_\_\_\_\_ 188

\$200 — for a 10,000 minute ~~source~~ with the prospects of its making 20,000.

I think it may be well to let the Paris Co. think they are beating us. We cannot come of their lamps.

Yours Truly,  
Francis B. Speer.

Tell Batchelor nothing, he cannot help telling if he knows, in my belief.

EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANCIS S. UFFER, TREASURER.EAST NEWARK, N. J. *Ms. 8* 1883

Dear Mr. Edison:

I demand that definite instructions be given regarding the responsibility in the financial concerns of the Lamp Co., as regards meeting various obligations as they become due.

I am driven to this by the events of this week.

For two weeks I have been preparing to meet the payments that I know were to fall due. This week by hurrying forward all shipments that would bring money, and by not drawing money with the understanding that efforts would be made to give me funds this week.

Yesterday I found that I was completely done for. When I asked Mr. Hartings for

EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANCIS S. UFFER, TREASURER.

EAST NEWARK, N. J. 188

money, he said that he had it but he had instructions from Mr. Dinsell not to pay any out to any of the Edison concerns until Saturday. On going to Mr. Tait I found that no provision had been made for us on the agency account. This was in the face of the following liabilities not provided for

Wednesday pay roll	1400.00
Thursday note	262.21
" "	2562.50
Friday Interest	900.00
	<u>\$5124.71</u>

This has compelled me to draw my money to cover the coming note for \$2562.50 as the check from them is not good for three days. I shall also be compelled to draw my checks for the interest due tomorrow \$900.

## EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANK A. LYTON, TREASURER.

EAST NEWARK, N. J., \_\_\_\_\_ 188

This is in addition to putting off  
our pay roll and creating dis-  
satisfaction among our help.

I had to draw out

Due from Hastings	6280.44
Due from T. A. E. Agent	5736.94
	<u>12017.38</u>

All I was asking for was  
\$2300— as I was willing to  
take care of the Comming note  
and we could draw on our  
bank balance for the small  
note.

After such treatment I am  
compelled ask for decided ac-  
tion. I refuse to have any-  
thing to do with providing  
money for running the  
Edison Lamp Co., unless the follow-  
ing conditions are agreed upon

T. A. E. 3.

## EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANK A. LYTON, TREASURER.

EAST NEWARK, N. J., \_\_\_\_\_ 188

in writing.

That money due the Lamp Co.  
from Mr. Hastings is under my  
control, the same as if the  
Lamp Co. were an outside com-  
pany.

That the money due from  
T. A. Edison Agent be paid with-  
out request a definite number  
of days after ~~posting~~  
the getting of bills of lading.

If these conditions are not  
complied with you will have  
to make such arrangements as  
to relieve me of all financial  
responsibility as regards collecting  
money or meeting liabilities.

If ~~it~~ these conditions are  
granted I will become ab-  
solutely responsible and per-  
sonally liable to meet any and

T. A. E. 4

## EDISON LAMP COMPANY

THOMAS A. EDISON, PRESIDENT,  
FRANCIS P. UPTON, TREASURER.

EAST NEW YORK, N. J.

188

283-4-08 E. 5.

all obligations incurred in running the business. In case the business grows two feet or runs behind I will also agree to give sixty days notice of the need of additional money.

In case we have funds and you need them, on formal notice to the Lamp Co. to that effect I will agree to do everything in my power to help you.

The amounts of money now at stake here are so large and I am so heavily interested in this company, having more than half of all I have invested here, that I am compelled to ask for a decided action on your part fixing responsibility.

Yours Truly  
Francis P. Upton



1883-11-15

THE EDISON LAMP CO.,

East Newark, N. J., Nov 15<sup>th</sup> 1883

*J. A. Edison*  
65 ~~High St~~  
Newark

In answer to your inquiry of 13<sup>th</sup> inst we make the following table

Price	Lamps in	Package	16" diam	26" long	Weight
75		Half box	16"	26"	25 lbs
100	"	"	16"	26"	35 "
150	"	"	20"	28"	40 "
200	"	"	21"	29"	45 "
300	"	2 "	20"	28"	50 "
350	"	2 "	21"	29"	90 "
500	"	4 "	21"	29"	140 "
600	"	1 cask	39"	39"	190 "
750	"	4 Boxes	21"	29"	150 "
750	"	1 cask	39"	39"	200 "
1000	"	1 "	44"	42"	300 "

The above weights are about the average

Yours truly  
Edison Lamp Co.

Lamps.

(883-11-28

Mr. Upton,

I wish you would write me a letter giving me the exact prices for lamps and reconciling the difference referred to in enclosed. This is a matter I spoke to you about the other day. You will see that they refer not only to 16 candle lamps but also to other lamps in which there is a discrepancy between the prices charged and the prices quoted.

S. Insull,

Nov. 20th. 1888.

per G.

Capital \$10,000.  
Shares \$100. each.

The Edison Lamp Company  
Number \_\_\_\_\_ Shares \_\_\_\_\_  
Incorporated under the Laws  
of the State of New Jersey.

This is to certify that \_\_\_\_\_  
is entitled to \_\_\_\_\_ share  
in the capital stock of The Edison Lamp  
Company, transferable only on the books  
of the Company in person or by  
attorney on the surrender of this cer-  
tificate upon consent of a majority of  
the ~~Directors~~ <sup>Stockholders</sup> ~~of~~ <sup>in</sup> notice to them in  
the manner prescribed by the by-laws.  
Dated Harrison, N. J. Nov. \_\_\_\_\_ 1888.

President \_\_\_\_\_

Treasurer \_\_\_\_\_

Loyal  
(1884?)

Know all Men by these Presents  
that I do hereby appoint  
my attorney, irrevocable  
for me to sell and transfer to  
the whole or any  
part of the within named shares  
with power to appoint one or  
more attorneys for that purpose.

Dated this            day of            1883  
In presence of:

Monthly Statement 1893-12-01  
 THE EDISON LAMP CO.,

East Newark, N. J.; Dec 1<sup>st</sup> 1893

Thomas Edison Esq.

# R. Upton  
 Bills due by us

15297.74  
41607.45  
 # 56905.49

Bills due to us # 20824.82

Lamps on hand Nov 1<sup>st</sup>  
 " manuf'd in "

91555  
30429 costing # 10716.33  
 121984

House Ship<sup>ts</sup> 18546

Foreign " 2800

21346 bringing # 10364.75

Lamps on hand Dec 1<sup>st</sup> 100638

House orders for month 20097

Foreign " " 6484

26581

Yours truly  
 Edison Lamp Co. &

1883-12-05

THE EDISON LAMP CO.,

East Newark, N. J., Dec 9<sup>th</sup> 1883

Saml. Insull Esq.  
#65 Fifth Ave. New York  
Dear Sir,

In answer to enclosed letter from Societe d'appareillage electrique. We would say that the difference in the price of lamps sent them on your invoices of March 1<sup>st</sup> and 9<sup>th</sup> is a clerical error and one that can not be rectified unless through your influence. The Switzerland company certainly gives it to be a clerical error, and that they were not entitled to the reduction, as they had received correct invoices before and after the above date. And probably on several occasions from you. We feel very badly that such a mistake should occur, and feel confident that it will

THE EDISON LAMP CO.,

East Newark, N. J. \_\_\_\_\_ 188

never be repeated.

We quote the following price on  
Lamps for any Foreign Country.

Ordinary Orders	Orders of 10000
8	50
2	50
10	60
32	45
50	50
100	7.50
	35
	40
	50
	60

On orders of 20000 Lamps we will  
deliver to O. B. in Hamburg  
Antwerp, Lyons and Liverpool

Yours truly  
Edison Lamp Co.

EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANCIS R. LIPTON, TREASURER.

EAST NEWARK, N. J., Dec. 12 1883

1883-12-12

Dear Mr. Edison:

A letter from

Stillwell says:

"The machines they make here  
are not worth a cent. I  
don't think they will do much  
more until they get a ship  
of their own."

Yours Truly

Francis R. Lipton.



THE EDISON LAMP COMPANY.

\$ 75 <sup>15</sup>/<sub>100</sub>

No. 320 East Newark N.J. Dec 13<sup>th</sup> 1883

at sight Pay to

the order of THE EDISON ELECTRIC LIGHT COMPANY

Seventy Five Dollars WITH EXCHANGE ON NEW YORK.

Value received and charge the same to account of THE EDISON LAMP COMPANY.

To Thomas A Edison Corp Dept New York Francis T. Upton Treas.

THE EDISON LAMP COMPANY.

\$ 75 <sup>50</sup>/<sub>100</sub>

No. 321 East Newark N.J. Dec 13<sup>th</sup> 1883

at sight Pay to

the order of THE EDISON ELECTRIC LIGHT COMPANY

Seventy Five Dollars WITH EXCHANGE ON NEW YORK.

Value received and charge the same to account of THE EDISON LAMP COMPANY.

To Thomas A Edison Corp Dept New York Francis T. Upton Treas.

EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANCIS H. UPTON, TREASURER.

EAST NEWARK, N. J., Dec. 15, 1883

Thos. A. Edison

Dear Sir:

We have always charged experiments to expense and then run expense each month into the Lamp account. We charge one per cent per month for depreciation on Buildings, Fixtures and Machinery and Tools and this carries into Lamp acct. any little experiments that may be made in altering tool.

I hold that at present this is a mistake as when in the future we have a profit to divide we need

EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANCIS H. UPTON, TREASURER.

EAST NEWARK, N. J., \_\_\_\_\_ 188

to have as large asset accounts as possible, so as to be able to take account of stock and as run up the cost of the lamps by the depreciation in our tools buildings, &c. I am holding back \$5000 that is due Halzer so as to run it into the account of the next six months or later as part of the Lamp expense. Halzer knows about this. I also have some other unsettled accounts that I am holding back so as to be able to run them into the cost of lamps when we have a profit to divide.

Yours Truly  
Francis H. Upton.

1883-12-18

1883-12-18

Lamps

East Newark, N. J., Dec. 19<sup>th</sup> 1883

Cons. Dept. 65 - 5<sup>th</sup> Ave.  
 We ship to day by Lackawanna line  
 to W. W. Rieck Middletown Pa.  
 1 Btl. #3820 - contg. 150 Test lamp  
 2 Btl. #3821-2 " 350 - 10.C.P. 105 Vlt.

EDISON LAMP CO. m.

THE EDISON LAMP COMPANY.

\$425 <sup>00</sup>/<sub>100</sub> No. 328 East Newark N.J. Dec 20<sup>th</sup> 1883  
 Pay to the order of THE EDISON ELECTRIC LIGHT COMPANY  
 Four hundred and twenty five <sup>00</sup>/<sub>100</sub> Dollars  
 WITH EXCHANGE ON NEW YORK.  
 Value received and change the same to account of  
 T. J. Edison Cons. Dept. THE EDISON LAMP COMPANY.  
 New York Francis P. Weston Inc.

Lamps

East Newark, N. J., Dec. 24<sup>th</sup> 1883

Cons. Dept. 65 - 5<sup>th</sup> Ave.  
 We ship to day by Fall River  
 Line to W. H. Dwyer Fall River  
 1 Btl. #3869 - contg. 150 G. lamp - 105 V.  
 1 " #3870 " 37 32.C.P. 105 V.

EDISON LAMP CO.

Lamps

East Newark, N. J., Dec. 24<sup>th</sup> 1883

Cons. Dept. - 65 - 5<sup>th</sup> Ave.  
 We ship to day by C. to  
 C. C. Ill. Co.iffin Ohio  
 2 Btl. #3871-2 - contg. 240 - 10.C.P. lamp 105 V.  
 1 Btl. #3873 " 120 16 " " 105 V.  
 1 Half #3874 " 56 32 " " 105 V.  
 " 56 30 " " 105 V.

EDISON LAMP CO.

EDISON LAMP COMPANY.

THOMAS A. EDISON, PRESIDENT,  
FRANCIS R. UPTON, TREASURER.

EAST NEWARK, N. J., Dec. 27, 1883

Dear Mr. Edison.

Regarding <sup>orders</sup> ~~orders~~ for Paris.  
In conversation with you  
it was agreed to let the matter  
drop until we heard from Paris.

As a matter of fact, we  
have not been able to make  
the cartons required without extra  
expense as the regular demands  
of the factory have taken all  
we needed.

I write your opinion that  
the cartons should be shipped  
and will do so as soon as  
we can spare them.

Yours Truly  
Francis R. Upton.

1883-12-27.

THE EDISON LAMP CO., 1883-12-28

EAST NEWARK, N. J., Dec 28 1883

J. A. Edison Esq.  
# 65 Fifth Ave.  
New York

Dear Sir:  
We will sustain  
prices as quoted by  
Mr. Chas. Batchelor to  
the Germans, for  
material for Glass  
Lamp factory.

Yours Truly  
Edison Lamp Co.

THE EDISON LAMP  
COMPANY.

\$179 <sup>45</sup>/<sub>100</sub> No. 337 East Newark N.J. Dec 31 1883

Pay to  
the order of THE EDISON ELECTRIC LIGHT COMPANY

One hundred and seventy nine <sup>45</sup>/<sub>100</sub> Dollars

WITH EXCHANGE ON NEW YORK.

Value received and charge the same to account of  
To Edison Conv. Dept. THE EDISON LAMP COMPANY.

New York } Francis K. Weston

THOMAS A. EDISON,  
No. 65 FIFTH AVENUE.

1883

NEW YORK, \_\_\_\_\_ 1883

Proportions from the Lamp Co.

Annual Sales

Percentage of gross  
receipts Light Co.

\$ 100,000 - 250,000

5 <sup>1</sup>/<sub>2</sub>

250,000 - 500,000

6

500,000 & over

7

MEMORANDUM OF AGREEMENT made this  
day of 188 , be-  
tween the Edison Electric Light Company of the City of New York  
party of the first part, hereinafter called the Light Company, the  
Edison Lamp Company, a Corporation organized under the laws of  
the State of New Jersey, party of the second part, and hereinafter  
called the Lamp Company, Thomas A. Edison, party of the third part,  
and Charles Batchelor, Edward Hibberd Johnson and Francis R. Upton,  
parties of the fourth part.

WHEREAS a contract has heretofore existed between  
Mr. Edison and the Light Company, dated the Eighth day of March 1881,  
relating to the use by Mr. Edison of the Light Company's patents in  
the manufacture of electric lamps, some of the provisions whereof  
are claimed and represented by Mr. Edison and the parties of the  
fourth part--his associates in business thereunder--to inequitable  
and oppressive to them in practice, and especially certain provi-  
sions which fix the price of lamps and others which permit the  
Light Company under certain circumstances to modify or revoke the  
manufacturing license created thereby,

AND WHEREAS the said Edison and his associates  
have been put to heavy charges in the matter of experiments made  
with the view to improve the economy and efficiency of said lamps,  
which it is agreed by the Light Company ought not to be wholly  
borne by said Edison and his associates;

NOW THEREFORE with the object of reforming the relations of said Edison and his associates as licensed manufacturers with the Light Company as the Licensor so as to constitute a permanent working relation which will be equitable and mutually beneficial,

I T I S A G R E E D A S F O L L O W S :-

F I R S T. The Light Company and Mr. Edison hereby rescind and cancel the Agreement of 8th. March 1881; such rescission to take effect as of the 1st. day of September 1882, so far as relates to business done subsequently to the last named date.

S E C O N D. Mr. Edison and the parties of the fourth part having organized themselves under the laws of the State of New Jersey as a Corporation under the name and style of The Edison Lamp Company of New Jersey, all the accounts and business of Mr. Edison and his said associates with the Light Company in respect to the manufacture of lamps under the above mentioned agreement shall be transferred to and taken over by the Lamp Company and future settlements of existing accounts shall be made with said Company.

T H I R D. The Light Company does hereby license and agree to license the Lamp Company with the exclusive right to manufacture within the United States the incandescent electric lamp and all parts thereof invented by Mr. Edison which is now, or may at any time hereafter be covered by Letters Patent upon inventions

of said Edison, and be or become the property of the Light Company under such Letters Patent; and further agrees that it will not license under any of said Letters Patent the introduction into the United States to be used therein, of such lamps manufactured in foreign countries. Whenever the Light Company may own Letters Patent for inventions of any parties other than Mr. Edison and the parties of the fourth part, it will license the Lamp Company to use the same in their business of manufacturing electric lamps without further compensation. In case the Light Company may acquire the right by license to use inventions of the character last above described, it will grant the same right of use under its license to the Lamp Company, whenever the terms of its license permits, and it will, in taking licenses for such inventions, endeavor in good faith always to obtain such license in such form as to enable it to license the Lamp Company.

F O U R T H. The exclusive license above provided, unless terminated, or the exclusive character thereof modified as herein-after provided, shall continue in respect to each of such Letters Patent during the life of the same.

F I F T H. The Lamp Company agrees to supply promptly all orders of the Light Company or of its licensees made through it. The price to be received by the Lamp Company is now fixed until changed in the manner hereinafter provided at forty cents for each standard lamp of sixteen candle power or under, and under 140 ohms resistance, with the cost of boxing and packing according to the



schedule of charges for the same items of expense charged by the

Company to be added.

All lamps are to be securely boxed ready for shipment and delivered at the Railway station most convenient for forwarding to ultimate destination, without further charge.

The price now fixed and all prices hereafter fixed from time to time shall be reduced by agreement as improvements in the art of manufacture or other causes may make such reduction desirable, and all profits over and above the amount of five cents per lamp shall be equally divided between the parties hereto; but the Lamp Company shall have no share in what shall be charged or received by the Light Company from purchasers beyond the price or prices now or hereafter to be fixed as aforesaid. The Light Company shall have the right to require any royalty which it may deem proper to collect from its licensees being purchasers of lamps to be added in all bills to the price of the lamp, and such royalty shall be first deducted and retained by or paid over to the Light Company before any accounting between the parties in respect to the profits of manufacturing provided for under this article.

The prices of all lamps of a power exceeding sixteen candles or a higher resistance than 140 ohms or matched lamps having same resistance and volts or lamps of higher economy than 10 per electrical horse power 16 candles each shall be fixed from

time to time so as to secure to the Lamp Company exclusively the same ratio of profit and no more which it receives exclusively as above provided upon lamps of sixteen candle power or under. It is understood that improvements in the economy of lamps are likely to be attained by increase in the resistance of such lamps above the present normal standard of 140 ohms, and also that economy may be attained by placing two or more lamps in series called "match lamps", having the same resistance and volts, and that such economy may also be attained by making lamps of 16 candles in such manner that more than ten per electrical horse power can be obtained; also that such economy may be attained in other ways, all of which ways may involve increase of cost of manufacture; And it is therefore agreed that when in any of the cases above described, the Lamp Company shall claim that it is being put to a cost in manufacture relatively greater to the same efficiency or economy in the lamp than that necessarily incurred to make lamps of 16 candle power and 140 ohms resistance, it shall be the duty of the parties hereto to unite in a re-adjustment of prices for lamps manufactured under such new conditions, and in case of failure to agree, either party shall have the right to demand an arbitration composed of three skilled persons, one of whom shall be appointed by the Lamp Company, the other by the Light Company, and the third of whom shall be selected by these two, and, after hearing the parties with such testimony as they may desire to present, and examining into the whole matter, the majority of the said ar-

bitrators shall have power to fix a new scale of prices for such new grades of lamp, and all prices thus fixed shall be subject to revision and alteration in the same manner and upon the same principles as is herein provided, for fixing prices for lamps now being manufactured.

The Lamp Company will continually endeavor to reduce the cost of the manufacture of all lamps, and all profits of manufacture shall be regularly accounted for to the Light Company, and one half thereof after paying to the Lamp Company five cents of profit per lamp upon lamps of sixteen candle power or under as aforesaid, and the same ratio of exclusive profit upon other lamps shall be paid over to the Light Company. Accountings shall be made on the first days of February in each year for the twelve months ending on the Thirty-first day of December preceding such accounting .

Accurate written statements of sales and collections during the preceding six months shall be made by the Lamp Company to the Light Company on the first days of August and February in each year together with an itemized or classified statement of actual cost of production; and the Light Company by its officers or agents appointed by its Board for the purpose shall have free access at all times to the manufactory and books of the Lamp Company, and all books connected with its business for the purpose of investigating and verifying the facts.

In determining the cost of lamps the total output of the Lamp Company during the period accounted for including all lamps sold to all countries shall be taken into account, and the average cost of all lamps of each grade or description manufactured during such period shall be taken as the actual cost of each lamp of each particular grade or description for the purposes of this contract.

S I X T H. It is mutually conceded by the parties:

(1) That the Lamp Company must have such assurance of being continued in this exclusive right of manufacturing as will justify it in making adequate preparations to meet the demands of the Light Company or its licensees for lamps at all times during the period of this contract.

(2) That the Light Company cannot safely place the manufacture of its lamps wholly out of its control so as to be unable to protect itself practically and efficiently against the possible consequences of failure or inability of the Lamp Company to supply all demands for lamps:

And it is therefore agreed in order to enable the Lamp Company to make suitable provision to meet all such demands so far as they can be foreseen, that the Light Company shall, whenever it grants a license for the use of its lamps in any territory within the United States, give notice thereof to the Lamp Company, with the name of the licensee, and will require from such licensee notice and advice from time to time, of the number of lamps re-

quired by it, not less than three months before the same shall be required, which notice and advice the Light Company will promptly transfer to the Lamp Company. The Light Company will also, upon the request of the Lamp Company where it may deem the same to be necessary obtain so far as is convenient and proper, suitable security, or such payment in advance, as will justify and enable the Lamp Company to establish additional buildings or machinery when necessary to supply any extraordinary demand for lamps.

After such notice and within three months of any order it shall be the duty of the Lamp Company, on receiving due payment therefor, to supply to the Light Company or any of its licensees the number of lamps called for by such order.

In all business connected with the supplying of lamps the Light Company will act as the agent both of the licensee and the Lamp Company without charge to the Lamp Company, receiving at its option any royalty which it may deem proper to collect upon the sale of lamps over and above the price fixed and payable to the Lamp Company as and for its exclusive benefit directly from the licensee or from the Lamp Company as it may elect.

This agreement does not constitute a license to the Lamp Company to sell lamps except as herein expressly provided; and the Lamp Company agrees as a continuing condition of its manufacturing license that no order shall be executed in any of the countries of North or South America except through the Light Company.

All settlements for lamps shall be made through the Light Company as agent for the Lamp Company, to collect all amounts due to it. All shipments and deliveries to countries of North or South America shall be made under the sole direction of the Light Company to such degree as it may choose at any time to exert the same, but without any charge therefor to the Lamp Company.

S E V E N T H. It being essential to the Light Company's interests that its licensees shall at all times be able to procure full supplies of lamps with promptness and despatch, of suitable styles, quality and character,

IT IS FURTHER AGREED:

1. That all lamps shall be of one or more standard kinds, sizes, styles and grades to be determined by the Light Company, and from time to time modified by it when necessary to introduce improvements affecting style, efficiency, economy, durability, or other qualities of such lamps. But any change which shall enhance the cost of such lamps beyond what is necessary at the date of this agreement shall be made the subject of a revision of prices, preserving the same relative proportion of outlay and profit as herein fixed; and in case of failure of the parties to agree upon a revised price the difference shall be submitted to competent arbitrators in the manner provided for in the article hereof.

2. That the diagrams and drawings hereto annexed, marked

"Exhibit A." shall be taken as establishing such standards until the same shall be modified by the Light Company.

3. That the Lamp Company shall deposit with the Light Com-  
pany complete working models of such lamp in all its different forms as it has heretofore been made by Mr. Edison and his associates, and hereafter, during the continuance of this contract, full and complete duplicates of all working drawings or models of improvements or changes in lamps and drawings of all machinery, tools and appliances of every kind employed by it in the manufacture, handling or treatment of lamps or the parts thereof shall, with full specifications of the same, be deposited with the Light Company as soon as the same come into use.

4. In case the Lamp Company shall fail to supply all the lamps required by any licensee of the Light Company within the time above provided, the same having been called for in good faith and for actual use, the Light Company shall have the right to manufacture, or caused to be manufactured by others, such an amount of lamps as may in its judgement be required not only to supply quantities as to which the Lamp Company shall have been deficient, but also such further quantity as may in its opinion be required to guard against future failures of a similar character.

And having in view the necessity which the Light Company is under to make its territory rapidly valuable by providing ample sources from which its licensees may obtain supplies (which object is sought to be accomplished through this agreement) it is agreed

that the Light Company must and shall be left free to judge from time to time acting reasonably and with good faith, whether the resources of the Lamp Company are such that it is liable to fail in supplying the lamps which have been, or may be, required by the Light Company's licensees; and acting in good faith upon such judgement the Light Company shall have the right after any failure by the Lamp Company, to make or cause to be made, by others such amount of lamps as may in its judgement be required to supply past deficiencies and guard against the contingencies of future failure, and to sell and dispose of the lamps thus made at such time and in such manner as it may think proper; but it shall not have the right to manufacture, or authorize the manufacture by other persons except to such extent as may seem necessary for the purposes above set forth.

In contracting for lamps with any other manufacturer, or in providing means for such manufacture by itself, it shall be at liberty, however, to provide or contract for such future supply as will justify the outlay for plant necessary to cover the actual or possible deficiency by the Lamp Company which is sought to be guarded against.

5. The Lamp Company shall have the right, without royalty, to manufacture lamps for export to all foreign countries other than those of North and South America, but notice shall be given to the Light Company of the time, place and amount of each export-



tation before shipment of the same from the manufactory, and the books of entry and correspondence of the Lamp Company or any person acting for it and relating thereto shall at all times be open to the inspection of the Light Company; but this right to manufacture for export shall not be allowed to interfere with the prompt execution of all orders by the Light Company or its licensees, and such orders shall always take precedence of all shipments to foreign countries.

G. Should the Lamp Company continue for a period of six months to fail in supplying the requirements of any of the Light Company's licensees, it shall then be at the option of the Light Company to terminate this exclusive license; but in that case it shall, if required by the Lamp Company, take over the manufactory and other property erected and provided by the Lamp Company for the purpose of such manufacture at the actual cost thereof, with a fair allowance for depreciation by use, and in case the valuation cannot be agreed upon by the parties, the same shall be fixed by three competent appraisers, one to be chosen by the Light Company, one by the Lamp Company, and the other to be chosen by said two appraisers.

Should the Lamp Company elect not to make such a requirement it shall be the duty of the Light Company to deliver to it the orders of its licensees for such amount of lamps as the Lamp Company may have furnished as its average daily output for the three

months next preceding any notice by the Light Company of its intention to terminate the exclusive license upon the grounds above provided; and as to any excess over such average output which in its judgement is likely to be required thereafter by itself or its licensees, the Light Company shall be free to manufacture, or authorize the manufacture of, the same by other parties as provided in the foregoing clause.

7. In case the Lamp Company shall supply or sell lamps to any person or corporation in the United States, or in any other countries of North or South America, other than the licensees of the Light Company, or shall sell to any of such licensees except upon an order in each instance made by the licensee through the Light Company, or by the Light Company itself, or shall fail to keep proper books of record and account for the purposes herein provided; or shall refuse access thereto to the Light Company's officers or properly authorized agent at any proper or reasonable time for the purposes of determining the cost of manufacture, or the amount of lamps made or sold, or the persons to whom sold, or shall fail to furnish models, working drawings and specifications as above provided, within a reasonable time after demand and which is fixed at three months or shall delay the supply to the Light Company's licensees by selling lamps to foreign countries without the consent in writing of the Light Company, it shall be at the option of the Light Company to revoke all rights, privileges or licenses granted or arising hereunder.

8. This agreement is intended especially to relate to the inventions of Thomas Alva Edison being the property of the Light Company but in case either of the parties hereto shall become the owner of any other letters patent or inventions, or any licenses therefor, relating to the lamps, or to tools, machinery and appliances useful in making the lamps, the Light Company and the Lamp Company shall each have secured to it in a proper manner the right to use and authorize the use of the same in the making of any lamp which it is empowered to make, or procure to be made hereunder. It shall also be an obligation of good faith binding on the Lamp Company and upon the said Edison, Batchelor, Johnson and Upton, and whoever may be associated with them and derive benefit herein to take all licenses or rights to use the inventions of others in such form that the Lamp Company may be able to convey, and the Light Company to demand and receive a complete right of use thereof to the Light Company, or such persons as it may authorize to manufacture. Prompt notification shall be given by each party hereto to the other of the acquisition of the ownership or the right to use any invention in or about the manufacture or handling of lamps or any of the parts thereof.

9. In determining the cost of lamps no compensation shall be allowed as paid to Mr. Edison, but compensation may be allowed at a fair and usual rate for actual services of Messrs. Batchelor, Johnson and Upton, not exceeding such as is customarily paid by

manufacturing establishments for similar services.

10. It is hereby represented by the Lamp Company and by the parties of the third and fourth parts, respectively, that they have in good faith expended, since the beginning of their business, the sum of \_\_\_\_\_ dollars in experimental work necessary to improvements in the lamps and the method of manufacture thereof; and it is agreed that all joint profits of manufacture, as fixed by the article hereof, (that is to say profits included in the price of the lamps now or hereafter to be fixed after deduction of five cents per lamp or in that ratio, which is to be the exclusive profit of the Lamp Company), shall be devoted to reimbursements of said sum of \_\_\_\_\_ dollars to the Lamp Company.

All experiments which may be made by the Lamp Company under the direction of the Light Company shall be paid for by it, and all expenditures for experiments made by the Lamp Company without such order shall, as to the one half thereof be, from time to time, reimbursed to it out of net profits due to the Light Company on the manufacture of the lamps.

In determining under this article when the amount already expended by MR. Edison and his associates has been paid, and in determining the amount due for experiments hereafter to be made, account shall be taken of all foreign sales, and the profit on each lamp thus sold over and above five cents per lamp shall be applied to the payment of such experimental expenses.

Certificate of Organization

The Edison Lamp Company

Monday at 11 -



Certificate of Organization.

This is to certify that we, Thomas A. Edison, Edward T. Johnson, Francis R. Upton, Frank M. ~~Crompton~~ and William D. Titzer, do hereby associate ourselves into a Company under and by virtue of the provisions of an Act of the Legislature of the State of New Jersey, entitled "An Act Concerning Corporations," approved April seventh, eighteen hundred and eighty five, and the several supplements thereto and <sup>also</sup> amendments thereof for the purposes hereinafter mentioned, and to that end we do by this <sup>our</sup> Certificate set forth:

First. That the name which we have assumed to designate such Company, and to be used in its business, and dealings, is

The Edison Lamp Company.

Secondly. That the objects for which said Company is formed are to manufacture and sell lamps or electrical apparatus to be used in electric lighting; to purchase or acquire patents, inventions or rights, useful, neces-

pany or desirable in the manufacture of said lamps or electrical apparatus, to buy or lease <sup>and to erect thereon buildings & machinery</sup> real estate for the use of said company; to issue bonds secured by mortgage upon the property to be owned by said company for the purpose of raising money to aid in prosecuting said manufacturing business, and to do each and every act incidental to said business, and to exercise all the powers granted to corporations in the act above mentioned and the supplements thereto <sup>acts</sup> and amendments ~~acts~~ thereof. — 1

— That the business of said company is to be conducted in the Township of Harrison, in the County of Hudson and State of New Jersey, where the manufacture of said lamps or electrical apparatus is to be carried on, and at such other places throughout the United States as may be designated by the stockholders of said company; that the principal part of the business of said company within this State is to be prosecuted in said Township of Harrison, and that the principal agency for the sale of said manufactured products is to be in the City, County and State of New York. —

Thirdly, That the total amount of the capital stock of said Company is ~~Two~~ <sup>One</sup> Million — dollars; the number of shares into which the same is divided is Four hundred and the par value of each share is ~~Twenty five~~ <sup>Twenty five</sup> hundred dollars. The amount with which said Company will commence business is ~~One Hundred~~ <sup>One Hundred</sup> and ~~thirty~~ <sup>thirty</sup> thousand dollars, which is divided into ~~one hundred~~ <sup>one hundred</sup> shares of the par value of ~~one hundred~~ <sup>one hundred</sup> hundred dollars each.

Fourth, That the stock of the said Company shall be transferable only on the books of the Company by the holder thereof in person or by an assignment made upon said books, subject to such restrictions and upon such terms as the By Laws of the Company may prescribe.

Am

Fifth, That no stock-holder shall have the power or right to examine any of the books of the said Company without the consent of the person or persons owning a majority of the stocks, excepting however the book or books in which the transfer of stock shall be registered, and the books containing the names of the stock holders, which books shall be open to the examination of every stockholder for thirty days previous to any election of directors.

Sixth  
Fourth The names and residences of the stockholders and the number of shares held by each are as follows:

James A. Edison of <del>Edisonville N.Y.</del> <sup>Edisonville N.Y.</sup>	10
Charles Bachelor of <del>Edisonville N.Y.</del> <sup>Edisonville N.Y.</sup>	10
Edward H. Johnson of <del>Edisonville N.Y.</del> <sup>Edisonville N.Y.</sup>	5
Francis R. Upton of <del>Edisonville N.Y.</del> <sup>Orange N.Y.</sup>	15

~~Charles Bachelor of Edisonville N.Y.~~

Seventh

~~1st of 1881~~ The period at which said Company shall commence business is the day of ~~October~~ <sup>October</sup>, Eighteen hundred and eighty ~~three~~, and the period at which it shall terminate is the first day of ~~November~~ <sup>December</sup>, Nineteen hundred and thirty-three.

In Witness whereof we have hereunto set our hands and seals this day of ~~October~~ <sup>October</sup>, 188~~1~~.

Signed, Sealed & Delivered in the presence of: —

Put on my 4 seals

State of New Jersey } ss: —  
County of \_\_\_\_\_

Be it Remembered, That on this

day of ~~October~~ <sup>October</sup> in the year of our Lord, one thousand eight hundred and ~~eighty-three~~ <sup>eighty-three</sup> before me

personally appeared Thomas A. Edison



Edward H. Johnson, Francis R. Zipton and  
William Stolger.

who, I am satisfied are the persons ~~named~~  
<sup>named</sup> ~~noted~~ <sup>and who executed</sup> in the foregoing certificate, and ~~to whom~~  
<sup>to whom</sup>

I first made known the contents thereof, and  
thereupon they severally acknowledged that they  
signed, sealed and delivered the same as their  
voluntary act and deed, for the uses and purposes  
therein expressed.

**1883. Electric Light - Edison Lamp Company - Lamp Test Reports (D-83-033)**

This folder contains correspondence and reports relating to lamp tests conducted by William Holzer and John F. Ott.

Approximately 20 percent of the documents have been filmed. The following categories of documents have not been filmed: incomplete material; test notes and reports lacking accompanying correspondence or other identifying information.

1883-01-03

642

Upton

Please have Linsen put  $\frac{1}{2}$  doz Carbon forms with Bamboo in ready for Carborizing in dish & cover with Boiled Linseed Oil & then heat <sup>out</sup> very gradually up to say 500° F. when most of the Carborizing will take place. Then you can either wash the forms in turpentine after taking out of dish & then put in regular run & run up to high heat as regular or you can wash with turpentine & take out loop & put in new forms - The theory is that the heat is applied perfectly even & thus you prevent internal stress, & also prevent oxidation at the point where the Carbon is the most persistent. I hope you know how you come out with it.

J. Allen

January 5 1883 -

Filed Jan 12 / 83  
J.A.L.

9 want the exact degree of contraction in length at the different points to be allowed for  
THE EDISON LAMP CO.  
EAST NEW YORK, N. J.  
1885-02-14  
Feb 14 1885

J. A. Edison Esq.  
New York

Dear Sir,  
The experiment to ascertain the degree of heat that the fibres stand to change in carbonizing is as follows:  
At 250 deg. the fibre when in a steep change & became darkened to tone 350 deg. is reached at 375 deg. the fibre changed to a black and at 400 deg. then appeared in full a cloud of smoke which lasted about three (3) minutes & then disappeared. I removed the sand bath from fire & then examined fibre & found it very high point & felt black.  
Yours &c  
J. A. Edison

[FROM CHARLES S. BRADLEY]

11 Apr 5 (1883)  
Bradley Mr. Weston  
I have made the necessary  
attention & improvement on  
the new film-Plating Mach  
& it would to my  
entire satisfaction  
cut - for I could have  
cut more) at Madry in  
Bas on (yesterday afternoon  
I have also cut  
up plates - make 4500 per  
month & turn out - 526  
film per hour - but think  
cutters will save sharpening  
more than twice a day  
the Mach as it now is  
will make still a man  
film as the Smart Hand  
has a per Mach &  
for Superior

13  
Thank you about complete

Mr. Weston  
Lumber  
cutting

making Bell nut	20
" nut	18
" threaded tube	12
	<hr/> 32
Cutting of Brass bits	
for Label Pipe	58
rean. Lead Pipe	
Cork	21
Removal Lead Pipe	41
Cutting of metal pins	
Lead Pipe	19
Bell nut - repair	
nut & threaded tube	33
	<hr/> 55
	17 1/2
	<hr/> 72 1/2



1883-05-21

THE EDISON LAMP CO.,

EAST NEWARK, N. J.

May 21<sup>st</sup> 1883

J. A. Edison Esq.  
New York  
Dear Sir,

We placed at  
of a. on this morning. Four (4) filament  
One " 15 run for 100 hrs.  
" " " " " 75 "  
Two (2) " " " " 50 "  
No Blast to be used.

The No Blast burner seems to show  
a very good record in every respect.  
We exhausted the 6,500 Lamp Test  
week + in hopes of doing better  
this present week  
Will forward curves on the above  
experiment at once as far as

Yours  
J. A. Edison

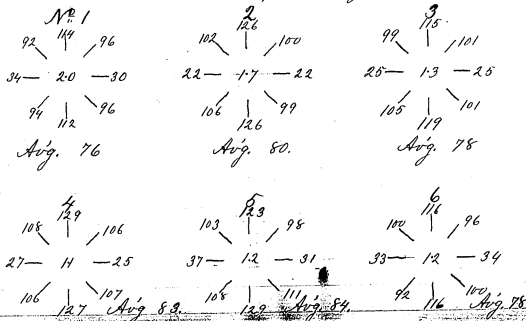
## THE EDISON LAMP CO.,

Maxim Test

East Newark, N. J., 188

## Test of 6 Maxim Lamps

The carbons of these lamps after burning, measured  $4\frac{1}{3}'' \times \frac{3/2 \times 22}{1000}$ .  
 The candle-power of each lamp was taken at different angles as shown by the following diagrams, and the average of the candle-powers at the different positions was taken to be the true candle-power of the lamp.





## THE EDISON LAMP CO.,

Maxim test

East Newark, N. J., 188

The lamps were then set up for a life test at such volts as gave an incandescence as near 340 candles to the horse-power as possible and the candle-power was taken every hour.

The following shows the volts and candle power at which each lamp was set up.

	C.P.	Volts	Res.	Pl. lbs.	Lamps per HP	C.P. per HP
No. 1-	76	77½	36.3	7317	4.51	343
2	80	77½	34.2	7769	4.25	340
3	78	78	34.7	7760	4.25	331
4	83	79½	35.	7963	4.14	344
5	84	80.5	35.9	7985	4.13	347
6	78	78	34.7	7760	4.25	331
Av.	80.	78½	35.1	7759	4.25	339

The following shows the candle-powers at the end of each hour.

## THE EDISON LAMP CO.,

Maxim test  
 East Newark, N. J., 188

hrs.	1	2	3	4	5	6	hrs.	5	6
0	76	80	78	83	84	76	11	32	20
1	66	66	72	74	71	68	12	31	18
2	58	60	64	65	64	57	13	29	
3	47	52	58	55	57	43	14	26	
4	41	46		49	52	38	15	25	
5	37	37		36	49	32	16	24	
6		33			42	28	17	23	
7					41	27	18	23	
8					39	25	19	22	
9					36	24	20	22	
10					33	22	21	19	

## Life:

1 - 390 minutes	4 - 300 minutes
2 - 410 "	5 - 1305 "
3 - 160 "	6 - 900 "

Average 578 minutes.

The wicks of another lamp were then taken at the different candle-powers & the economy computed with the following results.

## THE EDISON LAMP CO.,

Maxim test  
East Newark, N. J. 188

C.P.	Volta	Res	Fl. lbs.	Lamps per hr.	S.P. per hr.
.4	36 1/2	43.7	1348	24.5	9.8
.5	39 1/2	42.9	1609	20.5	16.4
1.6	43	41.8	1957	16.9	27
2.4	45 1/2	41.4	2214	14.9	35.7
3.2	47	40.6	2396	13.8	44.1
4	48 1/2	40.6	2563	12.8	51.2
4.8	50	40.5	2731	12.1	58
5.6	51	40.2	2864	11.6	64
6.4	52	39.8	3006	11	70
7.2	53	39.8	3116	10.6	76
8	54	39.9	3230	10.2	82
9	55	39.9	3351	9.9	87
10	56	39.9	3476	9.5	95
11	57	39.8	3608	9.1	101
12 1/2	58	39.7	3758	8.8	110
14	59	39.5	3894	8.5	119

C.P.	Volta	Res	Fl. lbs.	Lamps per hr.	S.P. per hr.
16	60	39.3	4048	8.2	130
17 1/2	61	39.1	4220	7.8	137
20	62 1/2	39.2	4299	7.7	153
22 1/2	63 1/2	38.9	4587	7.2	162
25 1/2	64 1/2	38.5	4783	6.9	176
28	65 1/2	38	4997	6.6	188
32	66 1/2	37.4	5226	6.3	202
36	68	37.3	5481	6	217
41	69 1/2	37.1	5756	5.7	230
46	71	36.9	6052	5.5	251
51	72 1/2	36.5	6374	5.2	264
61	74	36	6687	4.9	301
70	76	35.9	7108	4.6	323
80	78	35.8	7629	4.4	350
90	80	35.4	7991	4.1	372
106	82	35	8506	3.9	411

J. P. Marshall

THE EDISON T-AM-B. CO.

*W. H. ...*

<i>11</i>	<i>12</i>	<i>13</i>	<i>14</i>	<i>15</i>	<i>16</i>	<i>17</i>	<i>18</i>	<i>19</i>	<i>20</i>	<i>21</i>	<i>22</i>	<i>23</i>	<i>24</i>	<i>25</i>	<i>26</i>	<i>27</i>	<i>28</i>	<i>29</i>	<i>30</i>
<i>May</i>	<i>83</i>																		
<i>Test</i>	<i>Martin</i>																		
<i>Lamps</i>																			

*W. H. ...*

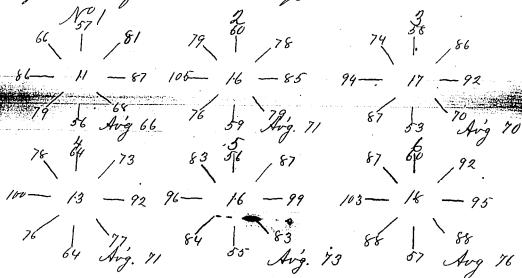
## THE EDISON LAMP CO.,

Edison test  
East Newark, N. J., 188

## Test of 6 Edison Lamps

These lamps were regular  $6\frac{1}{2}$ "  $\frac{5 \times 17}{1000}$  lamps & the carbons after burning measured  $5\frac{1}{4}$ "  $\frac{5 \times 10}{1000}$ .

The candle-power of each lamp was taken at different angles as shown by the following diagrams, and the average of the candle-powers at the different positions was taken to be the true candle-power of the lamp.



1883-06-30

## THE EDISON LAMP CO.,

Edison test

East Newark N. J.

188

The lamps were then set up for a life test at such volts as gave an incandescence as near 340 candles to the horse-power as possible and the candle-power was taken every hour.

The following shows the volts and candle-power at which each lamp was set up.

	C.P.	Volts	Res	H. lbs.	Lamps per H.P.	C.P. per H.P.
N <sup>o</sup> 1	66	123	104.7	6393	5.17	341
2	71	129.5	107.4	6905	4.77	339
3	70	126.5	102.3	6919	4.77	334
4	71	123	95.6	6998	4.72	335
5	73	131.5	106.6	7175	4.60	335
6	76	129.5	101.1	7335	4.50	342
Av <sup>g</sup> .	71	124	102.9	6954	4.75	337

The following shows the candle-powers at the end of each hour

## THE EDISON LAMP CO.,

*Edison test**East Newark, N. J., \_\_\_\_\_ 188.*

hrs.	1	2	3	4	5	6	hrs	4	5
0	66	71	70	71	73	76	7	30	29
1	57	61	51	58	54	61	8	30	28
2	48	51	46	50	47	53	9	28	
3	39	45	39	45	41	47	10	28	
4	36	40	33	41	36	40	11	27	
5	32		30	37	34	38	12	26	
6				32	30				

*Life*

1	330 minutes	4	735 minutes
2	280 "	5	495 "
3	345 "	6	330 "

*Average 411 minutes*

The volts of another lamp were then taken at the different candle-powers & the economy computed with the following result.

## THE EDISON LAMP CO.,

Edison Test

East Newark, N. J.

188

C.P.	Volts	Res.	H. lbs.	Lamps per 100	C.P.	Volts	Res.	H. lbs.	Lamps per 100	C.P.	
12	60	114	1377	236	11.8	23	96 1/2	95.6	4489	7.4	169
1	65 1/2	1124	1693	19.5	19.5	26	100 1/2	93.4	4784	6.9	179
2	70	1068	2030	16.2	32.4	31	103 1/2	93.5	5069	6.5	202
3	73 1/2	1057	2261	14.6	43.8	35	105 1/2	92.5	5325	6.2	217
4	76 1/2	1039	2512	13.1	52.4	40	108	92.6	5574	5.9	237
5	79 1/2	1026	2724	12.1	60.5	46	110	90.8	5898	5.6	258
6	82 1/2	1025	2868	11.5	69	52	112.5	90	6220	5.3	276
7	85	1016	3000	11	77	58	114.5	90.3	6422	5.1	298
8	84 1/2	1006	3143	10.5	84	64	116	88.7	6675	4.9	316
9	86	99.4	3292	10	90	70	118	88.5	6940	4.7	332
10	88 1/2	1007	3440	9.6	96	78	120	88	7208	4.6	356
12	90	99.1	3619	9.1	109	86	122	87.1	7539	4.4	375
14	92	96.3	3888	8.5	119	96	124	85.9	7923	4.2	400
16	94	97.4	4014	8.2	135	108	126	84	8361	3.9	426
18	96	96	4247	7.8	152						

J. T. Marshall.





1883-06-05

31

THE EDISON LAMP CO.,

EAST NEWARK, N. J. June 5<sup>th</sup> 1883

RECEIVED  
JUN 6 1883  
ANSWERED

Mr. T. A. Edison

.....188...

Dear Sir

FILE NO.....

Enclosed

find Curves among them  
papers will find 955. Twenty  
Five hour Carbonization which  
shows well for life. Will send  
you the economy of time at  
the last. Lamp breaks.

The 100 hours runs show very  
favorable. Shows a set-up  
for life test. The slow carbonization  
has a critical point at which the  
filament is to break. I am  
looking the matter up very carefully  
will write you as an  
affair in  
the office

Lamps.

1883-01-09

THOMAS A. EDISON,  
No. 65 FIFTH AVENUE.

NEW YORK June 9 1883

Mr. Edison  
Dear Sir

I found in plugging in  
lamps the regulator slightly  
stuck, and in cutting them  
out it was still more noticed,  
when I got to 15 lights it stuck  
I pulled plug then put back  
took reading the second time  
and the reading was far below  
what it ought to be,

I also finished the  
3 lamps in Erie they work  
well

J. F. Ott

CABLE ADDRESS—EDISON, NEW YORK.

1883-06-21

THOMAS A. EDISON,  
No. 65 FIFTH AVENUE.

Per S. S. \_\_\_\_\_

Per \_\_\_\_\_

NEW YORK, June 21, 1883

Mr Edison  
Dear Sir

I made 8 moulds put 8 carbons in each mould making 24 carbons sent to lamp factory for carbonizing, and they sent back they carbonized all right but broken in taking them out,

Also finished three lamps in series work all right where with I send them to,

Also made ampere meter and that works well,

Also received lamps from lamp factory to test meter and shall have a test to morrow morning

Also assisted Conant on plate using on scale for plate using

Yours truly  
J. C. H.

1  
1883-06-30

## THE EDISON LAMP CO.,

East Newark, N. J., June 30 1883

Report on Weston 100 light incandescent machine.

Machine is of old style using a separate exciter

Resistance of armature - cold -	.028	Ohms
Resistance of magnets	1.95	"
Internal resistance of machine including armature - brushes - brush holder - and binders to binding posts on machine - measured hot - after running the machine some time with load -	.045	Ohms
Resistance of exciter, including armature, magnets and connections - measured hot -	1.36	Ohms

The proper load was determined from measurements made on a number of incandescent lamps which came with dynamo

The normal E. M. F. is 65 Volts  
The normal current is 166 Amperes

## THE EDISON LAMP CO.,

East Newark, N. J. \_\_\_\_\_ 188

First test -

Speed 1150 revs per min  
 The magnets were excited and machine  
 run 75 mins. with brushes removed when  
 a thermometer held close to the running  
 armature indicated 140° Fahr  
 Thermometer placed on top of magnets  
 under wooden cover indicated 132° Fahr  
 Temperature of room 82° ..

The machine was then run 20 mins.  
 giving 64 Volts and 161 Amperes  
 with the brushes at point of max-  
 imum electro-motive force - at the  
 end of this time the thermometer close  
 to armature indicated 146° Fahr  
 Thermometer on top of magnets - 134° ..

E. M. F. on line	64 Volts
Current	161 Amperes
E. M. F. on magnets	24 Volts.
Current on magnets	12.3 Amperes

## THE EDISON LAMP CO.,

East Newark, N. J. \_\_\_\_\_ 188

First test - concluded

Energy in internal circuits measured between binding posts	- 51712	Watts
Energy in external circuit	156810	Watts
Energy in magnets	13095	Watts
Energy in exciter	9121	Watts
Total electrical energy developed by dynamo and exciter	520738	Watts

In armature	.097
In magnets	.024
In exciter	.017
In external circuit	.860

Rejecting energy in exciter machine	
Total energy	521617

In internal circuit (armature)	.099
In magnets	.025
In external circuit	.875

## THE EDISON LAMP CO.,

East Newark, N. J., \_\_\_\_\_ 188

Second test -

Brushes advanced to reduce sparking -

E. M. F. on line	62 - Volts
Current	164 - Amperes
E. M. F. over magnets	34 - Volts
Current over magnets	17.43 - Amperes
Speed	1120 rvs. per min.

Energy in internal circuit - measured between binding posts -	53657 ft. lb. min.
Energy in magnets	26238
Energy " exciter	18830
Energy in external circuit	430781

W. internal circuit	.097
W. magnets	.047
W. exciter	.033
W. external circuit	.821

6-30-'83. J. M. Howell



1883-07-05.

EDISON LAMP COMPANY.

TRADE MARK  
REGISTERED  
MADE IN U.S.A.

EAST NEWARK,

July 5<sup>th</sup> 1883

Mr. Howard A. Edison, Esq.  
New York

Dear Sir:-

Yours of the 2<sup>nd</sup> inst  
came to hand. In reply would  
say that order No 11 is correct  
according to the current send-you  
put up at 64 C.F. size 6" 6 $\frac{1}{2}$ " x 9 $\frac{1}{4}$ "  
Order 973 should have been marked  
8 x 13 $\frac{1}{2}$ .

Order 988 is an experiment  
used a small quantity of  
Manganese in form  
will send you further in the  
matter + explain

Yours  
H. M. Holzer

1783-0 P. VII

THE EDISON LAMP CO.,

EAST NEWARK, N. J.

Aug. 2<sup>nd</sup> 1883

Mr. J. A. Edison

Dear Sir,

Enclosed you will find three (3) Curves of the Maxim Lamp & one (1) Curve of the Swan Lamp with several of our own Curves.

Order 992 Carbonized as follows: A Preliminary heating of 700 hours in a Sand Bath up to 650° Fahr. & then placed in Furnace and run regular 9 (9) hours. Will mail you a few of the Curves of the 6" 6 1/2" & 9 1/4" on Saturday

Yours Respectfully  
Edison Lamp Co.  
per Wm. Hobbs

1883-08-06.

THE EDISON LAMP CO.

RECEIVED

AUG 7 1883

ANSWERED

EAST NEWARK, N. J. Aug 6<sup>th</sup> 1883

.....188.....

FILE NO.....

Mr. T. A. Edison

New York

Dear Sir

Enclosed find Curve;  
Also corrections in the Ampere  
of Order 992. on the Curve sheet  
with one (1) Lamp to complete same.  
We have examined Mr. Hatchers  
order and find it calls for Fibre.

Yours Respectfully

Edison Lamp Comp.

Per Wm. Holzer  
Wm. Holzer

1883 08-20

THE EDISON LAMP CO.,

EAST NEWARK, N. J., Aug 20<sup>th</sup> 1883

Mr. J. A. Edison  
New York

Dear Sir. - Enclosed find burned  
Order 35 is the Resin experiment -  
Carbon taken from top of Pile. The  
cause of which shows good life &  
economy.

Order 72 Carbon from the same Crucible  
as order 35; from center of Pile which  
shows less economy & life.

Resin placed in the band of Crucible.

We are making fair progress with  
the 400 ohm lamp. Managed to obtain  
a few last week Carbonized them in a  
dickens form & found Resistance to high  
otherwise good shape of spiral. We have  
a lot in the oven in Carbon forms & will  
report to you by Wednesday next. Yours  
E. L. Cox  
Wm. H. Allen

1893-08-21

THE EDISON LAMP CO.,

East Newark N. J., Aug 21 1883

T. A. Edison Esq  
65 Fifth Ave  
New York  
City

Dear Sir

I have made the following experiments with the new clamps. And the following results:

1 Lamp 87137a. with shank on but no plating on carbon exhausted in twenty five minutes. then put it on the photometer at 96 candles. lasted 240 minutes then carbon broke about half way up leaving clamps all right. bulb slightly blackened. I also made one lamp 8717 with no shank on. carbon nickel plated. this one came off pump in the same time, showing no blue at clamps. I had this one put on photometer at 80 candles this lasted 285 minutes then broke the same as the other, but the globe was badly copper blackened. I have also made a lot more in different ways, with very good results.

2

1883-08-21

THE EDISON LAMP CO.,

East Newark, N. J., Aug 21 1883

4. = 8+13 $\frac{1}{2}$  With platinum clamps and copper sleeves shankles on, carbon copper plate
6. = 8+13 $\frac{1}{2}$  With copper complete shankles on, carbon copper plated
- 6 = 8+14 With platinum complete shankles off nickel plated.
7. = 8+14 With platinum sleeves and copper clamps shankles off, nickel plated
- 1 = 8+13 $\frac{1}{2}$  With platinum clamp, copper sleeve on one side the other platinum complete no shank on, carbon copper plated
- 4 = 8+13 $\frac{1}{2}$  With copper clamps complete no shank on, carbon copper ~~copper~~ plated and dipped in copper amalgam)
14. = 8+13 $\frac{1}{2}$  With copper clamps complete no shank on, carbon copper plated, but sleeves heated red hot before putting in carbon

3

1883-6 P-21

THE EDISON LAMP CO.,

East Newark, N. J., Aug 21 1883

This seems to be the best that we have struck  
as yet. They were worked high showing no blue  
at clamps. Mr. Dodge and myself watched  
them worked off pumps. and he thinks very  
favorable of them, the same lamps will  
be put up tomorrow on test and as soon  
as possible we will mail you the results.

I have since clamped twenty five  
more made in the same <sup>way</sup> which will go  
through tomorrow

Yours Respy  
Martin M. Fox

1883-OP-23  
Aug 23 1883

RECEIVED  
AUG 24 1883  
EDISON  
ANSWERED

Dear Sir

On my way up town  
I called at Kings Saloon  
he says he has 14 lights burning  
and not one broken,

Mr Eflin has 7 lights  
he says none broken but  
has trouble with one lamp  
as it is fastened to the clumsy  
waiter and it gets loose in  
the socket and goes out,

Mr Leary has 16 lamps  
and 11 at central station,  
I also noticed another

1883-OP-23  
feature in their arc  
light system when a  
subscriber cuts out an arc  
light they put in one  
in the station to prevent  
the pressure becoming too  
strong

I think I can  
keep an account of the brokege  
of lamps as I am very well  
acquainted with the clerks,

Yours truly





THE EDISON LAMP CO.,

EAST NEWARK, N. J.

Aug 24 1883

J. A. Edison Esq.  
N. Y.

Dear Sir,

Enclosed find <sup>20</sup> Cords

30 & 33 will show a  
good record.

We have been using a lot of  
Fibres with 33 fibres in a form.  
Cords not very fair with about  
5 per cent breakage. In future  
we will run about seven thousand  
through in one heat to in one  
Cord will show you full  
report as to life & general economy

Yours  
J. A. Edison

J. A. Edison

1883.08.29

THE EDISON LAMP CO.,

EAST NEWARK, N. J.

Aug 24 1883

Mr. J. A. Edison

Dear Sir,

Enclosed find

3 Sheets of Cords Sheet, New Style  
Clamps used in Lamps & test, 23  
Cords Sheet to regular Clamping.  
Will mail you as Cords Sheet  
of the 3" x 6" in 15-morrow  
mail. We obtained very good  
economy on the 3" x 6" but life  
very poor. Will put up for test  
quite a few 15-morrow & hope  
to obtain better result

Yours Respectfully

Wm. Stohr

1883-08-30  
Write & say stick to this size  
THE EDISON LAMP CO.,  
& work the life up  
EAST NEWARK, N.J. Aug 30<sup>th</sup> 1883  
Edison

Mr. J. A. Edison  
New York

Dear Sir:

Enclosed find two  
boxes of the 8"  $\frac{6 \times 6}{1.00''}$  Fibres.  
The Life very short - economy very  
fair & Resistance too high.  
We have a lot in papers of bairns  
& hope to obtain better results.  
Should we fail to obtain the desired  
Life, Economy & Resistance. Then  
a new cut of Fibre will no doubt  
bring the proper result - say 8"  $\frac{6 \times 8}{1.00''}$   
this cut of Fibre will give the desired  
Resistance & no doubt giving life  
& fair Economy  
Yours &c  
Wm Stolzer

1883-08-31  
THE EDISON LAMP CO.,  
EAST NEWARK, N.J. Aug 31<sup>st</sup> 1883

Mr. J. A. Edison  
New York

Dear Sir:

Enclosed find current  
which show very fine Life.  
The current of Adv # 30 is very  
good Life & no doubt the very  
finest obtained & will endeavor  
to excel it.  
I - Morrow will put up a  
set of the 8"  $\frac{6 \times 6}{1.00''}$  & render you  
a report at once  
Yours &c  
Wm Stolzer

THE EDISON LAMP CO.,

EAST NEWARK, N. J.

Oct 30. 1883

Mr. J. W. Edison

New York

Dear Sir

Your experiment  
of Lamp with 8" long  
Inside Parts will be through  
Test-Room by Thursday  
We have several other Ex-  
periments on hand & will  
be through Test Room later  
part of this week & will report  
results to you.

The Enclosed Cards will  
no doubt be satisfactory

Yours & C

W. H. Holmes

1223-11-06

THE EDISON LAMP CO.,

East Newark, N. J., Nov. 6 1883

Mr. William Holzer,

I have today carefully examined the C. M. F. of the lines in the test room by comparison with the standard batteries which are fresh and found it to be 100 volts. This test is made almost every day and the position of the spot on the scale of the regulating dynamometer has not had to be changed for several months.

I have also tested the candle-power of the standard lamp by comparison with the standard candles and found it to be 16 candles.

The standard lamp is used but a short time each day and the regulating resistance in series with it is the same as it was more than two months ago.

J. F. Marshall.

1883-11-13

THE EDISON LAMP CO.,

EAST NEWARK, N. J.

Nov 13<sup>th</sup> 1883

Thos. A. Edison Esq.  
New York

Dear Sir

We find you the  
Experimental Lamp with  
Platinum wire  $\frac{1}{8}$  inch diameter  
Inside Part.  
Lamps of which have the wire  
exposed + some are not exposed.  
Also a Lamp with a Spun  
Glass Gasket between Carbon  
showing that the brush has  
all round considerable of the  
blackening.  
Will have about - some of  
your experimental used through  
to - measure your  
W. Westlake

Lamps  
THOMAS A. EDISON,  
No. 65 FIFTH AVENUE.

1883-12-04

NEW YORK Dec 4 1883

Answer

Mr Edison  
Dear Sir

I made three curves on  
pressure lamp and found they  
change considerable No 1 gave a  
deflection 5 deg at 90 Volts  
No 2 gives 6 at 95 1/2 Volts  
No 3 " 5 " 96 1/2 Volts

Why would it not be a good  
idea to have some one at lamp factory  
make a dozen of these lamps take  
the curve of deflection, they give  
then set them up and take  
evening and life test and compare  
the two curves, it might on reveal  
some new clues in lamp

Yours truly  
TAE

1883-12-06.

THE EDISON LAMP CO.,

EAST NEWARK, N. J. Dec. 12 1883

J. W. Edison Esq  
New York

Dear Sir

Enclosed find  
several Curves of your Experiments  
The Balance of your experiment  
will be put-up in List-to-morrow  
the first will mail if the  
Curves show as from at record  
is obtained

Yours Respectfully  
W. H. Holzer

1883-12-12.

THE EDISON LAMP CO.,

EAST NEWARK, N. J. Dec. 12 1883

Mr. J. W. Edison  
New York

Dear Sir

Enclosed find a few  
special curves.

The East-Fibre is underway  
will have a test in the plant  
by Tuesday next.

The W - New Works will  
be taken out of furnace to-  
morrow the 13<sup>th</sup> if finished the  
Carbonizing this to me but -  
the Crucibles used to hot to  
handle otherwise would have  
responded as promised

Yours Respectfully  
W. H. Holzer

1883-12-18  
THE EDISON LAMP CO.,

EAST NEWARK, N. J. Dec. 18<sup>th</sup> 1883

Mr. J. A. Edison  
New York Dec 24<sup>th</sup> 1883

Dear Sir,

I have the following  
material in process of carbonizing:  
Tortoise Shell, Horn, Cotton fiber  
Vermicelli, Good Quills, East fiber  
and a lot of your New Stock  
(Tissue Papers).

Enclosed you will find some  
sheet of H- on stock.

Will report to you the result  
of the above material as soon as  
it comes out of Furnace.

This 8"  $\frac{6 \times 4}{1000}$  Saw film relay sheet  
high resistance will come through  
this present week

Yours Respectfully  
Wm. H. Allen

Lamps

1883-12-19  
THE EDISON LAMP CO.

EAST NEWARK, N. J. Dec 19<sup>th</sup> 1883

Mr. J. A. Edison  
New York

Dear Sir

Enclosed find  
a specimen of carbonized  
Vermicelli. The difference  
in resistance between Lamp  
& Vermicelli is 2% in favor  
of Vermicelli. Highest

In subjecting it to a microscopic  
test, I find it looks quite fine,  
resembles paper in every respect.  
Vermicelli can be obtained in  
very large quantities. I have secured  
pounds that was purchased for the  
purpose of making lamps & will put them  
in shape for a regular lamp & Cartridge & can  
be used for test.

THE EDISON LAMP CO.,

EAST NEWARK, N. J., Dec 28 - 1883

Mr. J. A. Edison  
New York

Dear Sir,

Experiments on Vermorel's  
Sticks; to ascertain the proper method  
of forming it, into the shape of a Carbon.  
The result of which has been as follows  
In subjecting the stick to a slight  
degree of heat, over a bunsen burner,  
for 15 seconds, the stick will be in condition  
to shape perfectly without any apparent  
injury. Any of the sticks that is  
not perfectly straight can be straightened  
in the same manner by drawing it along  
the flame and turning it the same as  
you would a piece of glass.

Preparations have been made to ex-  
amine about 100 will report the  
results as soon as they come through.  
The sticks experiments you spoke of  
a few days ago will receive prompt attention.

Yours Respectfully  
Wm. Holzer



Lamps		Dec	Number of Lamps broken
Lamps broken in Dec 1883		28	1 (1/2/83)
Date	Life of the lamps or when extinguished.	29	2 (1/9/83) (9/1/83)
* 1	3 (2/9/83) (30/11/83) (1/10/83)	30	1 (0)
2	2 (0) (0)	31	2 (0) (0)
3	3 (0) (0) (0)		
4	2 (12/10/83) (9/10/83)		
5	1 (14/3/83)		
6	4 (0) (1/11/83) (1/11/83) (0)		
7	3 (1/10/83) (0) (0)		
8	6 (30/8/83) (1/11/83) (4/2/83) (5/2/83) (26/11/83) (0)		
9	1 (0)		
10	24 (31/8/83) (21/4/83) (5/8/83) (9/4/83) (2/2/83) (5/5/83) (9/2/83) (28/1/83) + (16,0)		
	we took down the cross lights, as usual two or three times a year		
11	1 (10/12/83)		
12	1 (23/11/83)		
13	2 (12/11/83) (3/12/83)		
14	1 (30/8/83)		
15	3 (9/12/83) (13/12/83) (0)		
16	4 (15/8/83) (1/11/83) (23/9/83) (0)		
17	2 (2/11/83) (27/11/83)		
18	5 (3/8/83) + (4,0)		
19	1 (1/10/83)		
20	1 (1/14/83)		
21	5 (1/10/83) (4/2/83) (30/4/83) (2,0)		
22	9 (3/10/83) (4/1/83) (22/12/83) (2/12/83) (1/2/83) + (4,0)		
23	1 (0)		
25	1 (23/2/83)		
26	0		
27	1 (0)		

Dec	Number of Lamps broken
28	1 (1/2/83)
29	2 (1/9/83) (9/1/83)
30	1 (0)
31	2 (0) (0)

Remarks &c.

\* The lamp was broken or went out on the first of Dec, it was put in on the 2 day of the 9<sup>th</sup> month in 83 and so on.  
Lamps marked 0 are the American ones, others with date are french ones.  
Average burning hours per day 4 hours

(you will keep this confidential #8)

Description of Cader 1719 (1883)

Lamps that have been dried and put on heater, Switch to 30 Volt-line, cut-out one hole at a time until the carbon shows a cherry red and then let burn for one hour and then move one hole at a time until both holes are cut-out but start from top of Spool box cutting out one hole when tube does not break. Switch to 150 Volt-line and work for blue when no blue is on clamps and solid tube heat stems and if blue comes on clamp work again, then heat stems again and if no blue shows on clamps Seal off.

Order No.	Bands per H.P.	Life in minutes		Order No.	Bands per H.P.	Life in minutes
1	148	533	C. T. 20	37	151	949
2	155	617	Radiation	38	152	1433
3	162	178	Keller	39	152	669
4	153	317	Keller	40	154	831
5	151	323	C. T. 20	41	155	1639
6	130	1790		42	156	1102
7	139	684		43	Rest film	
8	147	933		44	161	31
9	154	2176		45	149	1317
10	154	115		46	143	1460
11	159	921		47	150	1950
12	168	278		48	140	677
13	147	773		49	144	2459
14	166	1184		50	138	617
15	164	1089		51	152	1499
16	164	1362		52	156	698
17	165	878		53	143	530
18	163	1325		54	158	1708
19	162	1078		55	150	1478
20	154	1088		56	155	1478
21	159	1407		57	147	521
22	153	831		58	158	2482
23	163	764		59	148	850
24	151	1199		60	150	1259
25	154	1526		61	137	783
26	153	1360		62	147	1588
27	149	971		63	138	412
28	150	937		64	149	1501

[CONTINUED FROM THE PRECEDING FRAME]

17	185	818		53	530
18	163	1375	54	158	1708
19	162	1078	55	150	1478
20	154	1038	56	155	1478
21	159 <sup>x</sup>	1407	57	147	521
22	153	831	58	158	2482
23	163	744	59	148	850
24	151	1199	60	150	1259
25	154	1526	61	137	783
26	153	1360	62	147	1588
27	149	971	63	138	442
28	150	737	64	149	1501
29	154	832	65	181	523
30	157	872	66	164	180
31	150	665	67	137	830
32	159	1530	68	140	592
33	153	516	69	133	653
34	158	903	70	140	270
35	149	1310	76	154	690
36	149	1170	77	154	363

Order No.	Life in minutes sample 20	C.P. for H.P. stage	Order No.	Life in minutes	C.P. for H.P.
78	652	155	105	531 <sup>24</sup>	147
79		135	106	Bombardier 272 <sup>72</sup>	140
80	889 <sup>x</sup>	Prudom 138 <sup>W</sup>	107	Prudom 701 <sup>72</sup>	146
81		Bombardier 135 <sup>W</sup>	108	Bombardier 269 <sup>40</sup>	155
82	1424 <sup>x</sup>	Prudom 138 <sup>5/16</sup>	109	Prudom 661 <sup>40</sup>	146
83	857 <sup>microvolts</sup>	173	110	Bombardier 216 <sup>40</sup>	152
84	1042 <sup>angle 46</sup>	165	111	Prudom 1055 <sup>40</sup>	164
85		Bombardier 36 <sup>by</sup>	112	Bombardier 499 <sup>6</sup>	149
86	1706	Prudom 157 <sup>64</sup>	113	Prudom 539 <sup>50</sup>	157
87	1242	Bombardier 145 <sup>32</sup>	114	316	144
88	2679	Prudom 155 <sup>32</sup>	115	300	136
89	1375	Bombardier 146	116	Carbon, 100 for solid 138	151
90	1342	Prudom 148 <sup>40</sup>	117	Prudom 992 <sup>40</sup>	178
91	Put switches back lead their from through 182	182	118	Prudom 70	168
92	1117	139	119	Bombardier 155 <sup>67</sup>	149
93	1096	138	120	Prudom 1597 <sup>67</sup>	162
94	718	138	121	Bombardier 599 <sup>72</sup>	147
95	1421	146	122	Prudom 1323 <sup>72</sup>	160
96	381	150	123	Bombardier 1143 <sup>60</sup>	159
97	127	127	124	Prudom 1152 <sup>60</sup>	168
98	919	137	125	578	152
99	666	148	126		
100		136 <sup>60</sup>	127	190	183
101	1011 <sup>x</sup>	142 <sup>50</sup>	128	560 <sup>x</sup>	187
102		139	129	223	166
103	796	142 <sup>6</sup>	130		135
104	362	144 <sup>24</sup>			

T. A. EDISON,

Menlo Park, N. J.,

1887.

## Order - Extra High on Pump

19 in Set

Life of longest - 426.0 minutes

These lamps are assorted Copper  
+ Silver Clamps, 10 being Cu,  
+ 9 Ag.

In the order of going they were  
as following

Cu	Ag	according to
1 <sup>st</sup>	3 <sup>rd</sup>	this the silver
2 <sup>nd</sup>	5 <sup>th</sup>	did not show
4 <sup>th</sup>	6 <sup>th</sup>	any discrepancy
8 <sup>th</sup>	7 <sup>th</sup>	
10	9 <sup>th</sup>	
12 <sup>th</sup>	11 <sup>th</sup>	
14	13 <sup>th</sup>	
15 <sup>th</sup>	17 <sup>th</sup>	
16 <sup>th</sup>	18 <sup>th</sup>	
19 <sup>th</sup>		

This set demonstrated the im-  
portance of bringing them to  
a high incandescence on the  
pumps.

W. J. H.

There were a number of  
these lamps arc'd (four) all  
of them silver & when arc'd  
the clamp was volatilized  
and deposited on the  
glass silvering the glass  
beautifully,

These copper clamps were  
not the deposit-ones used  
at present but in form  
resembling the platinum ones.

Extra High on Pump. Set.

## Order 35.

Six Lamps in Set  
Made from Sample marked  
D.D. 8X17 - 2nd Set.

Lasting Time of Longest - 8.58 <sup>minutes</sup>

Two of these are'd & one  
went up immediately none  
of which were included in curve.

Several of this set were  
somewhat distorted opposite  
The negative clamp on globe



T. A. EDISON,

Menlo Park, N. J., 1881.

Order 156.

Set of P. H. Size  
PX10 drawing up 3 weights  
carbonized in New Furnace.

(The weights were placed in contact  
with loop at start)

Life of longest-Lamps 4260 Min

These lamps made fair records  
& were most of them considera-  
bly blackened some (the long bird  
nos) were very black.

They had silver clamps & glass  
opposite several was more or less  
silvered (opposite neg. clamp)

Two of these lamps after burning  
for some time altered somewhat -  
one from 118 Volts to 114 Volts -  
111 Ohms to 93 Ohms.

The other from 116 Volts to 108 Volts -  
101 Ohms to 95 Ohms

T. A. EDISON,

Menlo Park, N. J., \_\_\_\_\_ 1881.

Order 193.

Set of 14 High Resistance Lamps, measuring cold about 1000 Ohms.

Size of longest lamp in this set 3200 Min @ 48 Candles.

I find that in the generality of globes in this & other sets that the discoloration occurs most opposite the faces of the carbons, opposite the breaking point - (from arcing & volatilization of carbon) & opposite the negative clamp, the latter discoloration almost invariably occurring.

This was one lamp in this set in which the shaft of the carbon was split so that the carbon was more or less in condense

down into the clamp, this has frequently been the case, but I have noticed that the life of the lamps has been but little affected thereby, having most of them made good records.

The breaking points in this set seem to be unusually distributed though on the right (negative) side.

Vacuum is all good and no arcs occurred in the 14.

For Average Ft-lbs. Volts & Ohms, also Time see see Curve sheet of this Order.  
7.2.78.

---

Order 193

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T. A. EDISON,

Menlo Park, N. J., \_\_\_\_\_ 1881.

## Order 202

Set of 42 "A" size Regular  
Lamp No. 17 Bantros, drawing up "B"  
size weights in patent cu. deposit-  
clamps.

Clamps very heavily plated.

Plating around the shafts was  
caused by capillary attraction &  
up to incandescence part where  
it became volatilized, forming  
arc's in nine of them, destroying  
the vacuum of all, & changing  
the resistance of the carbon, the  
positive reducing (by deposit) to  
very much lower res, being  
very bright, while neg. side became  
very high & of dull red color,  
in the case of by far the majority  
of them. The break occurred on  
the positive a very unusual  
occurrence under ordinary cir-  
cumstances.

circumstances.

The carbons were changed by the deposit from the volatilized car. from a jet black to a dull grey.

Negative platinum wire was considerably discolored, in all, - where the platinum passes through the solid glass.

Positive clamps in all were more or less covered with fluffy black carrying deposit.

Gloves in these "cup deposit" clamp lamps did not discolor as much as with ordinary platinum + clamps - probably because of better contact.

Majority of these lamps showed bad vacuum blow around clamps after burning for some time from vol cut.

When arc formed in a number of the lamps the carbon was thrown on the glass in a fluffy deposit - noticed on a couple of them that there were little bunches of this feathery carbon hanging on to the carbon even while the lamp burned for a long time.

T. A. EDISON,

Menlo Park, N. J., \_\_\_\_\_ 1881.

Noticed in several a blue fluorescence around the carbon half way up the side which was caused by a split in the carbon which formed an arc, this soon destroyed the carbon at that point.

Time in Minutes of longest lived  
all 2150 min.

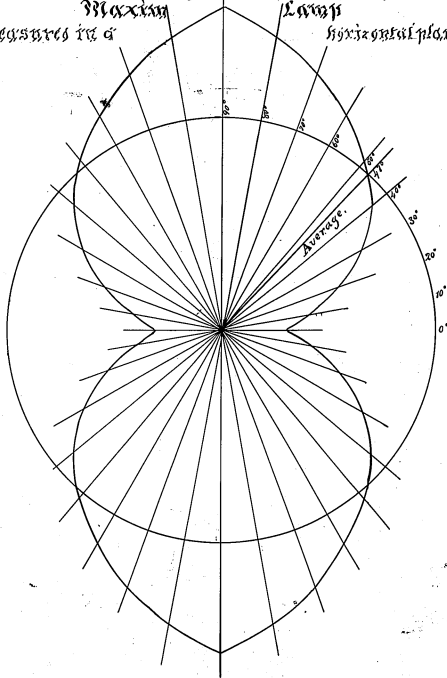
Shortest 165 min.

For Electric Motion Forces, Resis-  
tances, Time, per l & c & c See  
Curves,

I have just received another set prepared essentially in the same manner, but with improved method of plating, so far they are doing very well & will make a fine record I think combining as they do several very important features. T. A. E.

Curve Showing  
Maximum  
measured in a

Illumination of  
Lamp  
horizontal plane.



**1883. Electric Light - Edison Machine Works (D-83-034)**

This folder contains correspondence and other documents relating to the business of the Edison Machine Works in New York City, which manufactured dynamos and large electric motors for the Edison electric light system. Much of the correspondence is by Charles L. Dean, superintendent of the machine works; by Charles Rocap, secretary; and by Gustav Soldan, Dean's successor as superintendent.

Approximately 70 percent of the documents have been filmed. The following categories of documents have not been filmed: weekly dynamo reports; weekly financial statements; orders; routine correspondence relating to shipping and supplies.



## EDISON MACHINE WORKS,

104 Goerck Street,

New York, *Jan 1<sup>st</sup>* 1883.

D. A. Edison, Esq.  
65 5<sup>th</sup> Ave.  
City.

Dear Sir,

We have on hand at this date the following stock of dynamo's

Ys.	Es.	Ks.	Ls.	Cs.
none	none	4	38	8

We have no orders on hand for any of this stock at this writing. We have only 3 Ks to ship for the 2s. Co. to complete their order for 35. These 3 we have reserved <sup>and on hand</sup> in addition to the 4 mentioned above. Of the 8 Cs. five are finished, and 3 partly done.

Yours truly,  
Charles Roepp

43  
Luswell,

1883-01-02

I enclose check &  
voucher for \$2561.00. You  
will see how same is  
made up. The Is. stock acct  
is all paid up and stands  
on our books at 539.00.  
The Elect. Ry. owes me 7483.64  
and with the 3. to be credited  
will bring it down to 7000.  
We have 1661.03 still due  
from Mr B. and I thought  
it would be as well to  
square this off too. Please  
give me your check for \$1661.03  
dated Dec 30/82

Rocaf

Jan 2/83

OFFICE OF  
Edison Machine Works,  
104 Goerck Street,

New York,

Jan 14<sup>th</sup> 1882

3  
Thos A. Edison Esq

Dear Sir:

Your favor,  
enclosing H.M. Loomis' note,  
is at hand, and in answer  
wish to say, that I do not  
desire to part with the  
planner, after so much  
work has been done to perfect  
it.

Yours Respectfully,  
Chas L Deau  
Per *CLD*

SCOTT & MYERS,  
Auctioneers & Real Estate Brokers,  
No. 8 Pine Street, N. Y.

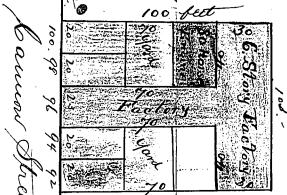
Geo. H. Scott,  
Sole Agent Myers.

12'  
Scott & Myers  
July 16<sup>th</sup> 1883  
New York

Stanton Street

price \$0.000

100 feet



Bowling Street

\*92. 94. 98 + 100 - Are Four

Story Brick Structures.

\*96. Is a. fix Story Brick  
Factory, with engine Room

Livingston St

Form No. 4

**CABLE MESSAGE**

1883-07-06

**THE WESTERN UNION TELEGRAPH COMPANY.**

All CABLE MESSAGES received for transmission must be written on the Message Blanks provided by this Company for that purpose, under and subject to the conditions printed thereon, and on the back hereof, which conditions have been agreed to by the sender of the following message.

THOS. T. ECKERT, General Manager.

NORVIN GREEN, President.

NUMBER	SENT BY	RECD BY	CHECK
174	C. H. Harris		174

Received at 84 Broadway July 6 1883.

To Brooklyn, N.Y.  
Mrs. A. Edison or friend

Cable price each type message

174 - (500)	175.
R - (50)	250.
S - (100)	400.
S - (200)	725.
R - (500)	1075.
S - (400)	1500.

THOMAS A. EDISON,  
No. 65 FIFTH AVENUE.

35-1883-02-07  
Rocap  
NEW YORK 17th July 1888

Mr C. G. Rocap  
Edison machine works

Dear Sir,  
Please let me know  
by return absolute cost of  
Central Station Dynamo  
with Armstrongs Sims  
engine packed ready for  
shipment.

I want to quote  
you four machines at lowest  
price today

Yours truly

Saul Secord

The 15 Co we have last built  
cost including everything, engine &  
f.o.b. \$8000. each.

Rocap

1883-02-10

February 10th.

Mr. Chas. E. Ross,

Edison Machine Works,

104 Gorek street, City.

Dear Sir:-

15  
26  
1883/10/89  
Inasmuch as my business is so large that it is quite  
impossible for me to give close attention to the details of it,  
and as I consider it better for my general interests to have all  
financial matters under one charge, I desire for the future  
that all checks of the Edison Machine Works shall be "vouchered"  
for by Mr. Insull before presentation to me for signature, and  
that you shall consult him on all questions connected with the  
finances of the Works.

You will please, therefore, make arrangements with Mr.  
Insull to bring the Works such days as will be necessary in order  
to enable him to have a proper insight into such matters.

Yours truly,

1553-02-13.

EDISON MACHINE WORKS,

104 Goerck Street,

New York, P. O. Box 13 <sup>rd</sup> 1883.

Thos. A. Edison, Esq.

City

Dear Sir,

I beg to acknowledge the receipt of your favor of 10<sup>th</sup> inst. and to say in answer thereto, that your desire shall be carried out in every respect.

It has always been evident to me that the position I have occupied would sooner or later become a subordinate one. That having now occurred, it is merely a question of time when I shall have to leave your employ.

So long as I have been permitted to work for your interests alone, I have always put forth every effort for success; but I cannot surrender my independence or become subservient to Mr. Ince. The moment this is done my position becomes worthless, and there is no longer any inducement for one who has striven hard to promote his employers interests, to continue doing so.

I desire that the examination Mr. Ince is about to make of the books, to be most thorough, and shall give him every assistance to that end.

Yours faithfully,

John E. Roop



1883-02-16

OFFICE OF  
Edison Machine *Works*  
104 Goerck Street,

New York, *Feb 16<sup>th</sup> 1883*

Samuel Inull Esq.  
Dear Sir!

The man that did all the "gold plating" for the shop, had not been in my employ for some time, and I am now having the plating done by outside parties, as I cannot tell when I will be able to give <sup>you</sup> the "receipt" required.

Yours Respectfully  
*W. L. D. Swanwick*

1883-03-05

EDISON MACHINE WORKS,

104 Goerck Street,

New York, March 1883

Thos A. Edison Esq!

65 Fifth Ave

Dear Sir!

Your favor of the

3<sup>rd</sup> Inst. is at hand & contents noted.

The following is a list of the old style  
Dynamo. Boxed. The new style, we cannot  
give you any information about as yet, as  
we have had none to box.

"D" Dynamo - Boxed in 4 boxes

Box containing Field Core & Keeper	- weight	2120 lb.
" " Red Plate	"	600 "
" " Armature	"	325 "
" " Switchboard	"	40 "
Total		3085 lb.

"E" Dynamo - Boxed in 2 Boxes

Box containing Core Field & Keeper	weighs	682 lb.
" " Red Plate & Armature		270 "
Total		952 "

"L" Dynamo - Boxed in 6 Boxes

Box containing 2 Core & Keeper + 1 Field	weighs	2120 lb.
" " " " " " " " " "		2120 "
" " Armature without Bully	"	750 "
" " Bully, Pillow Block, Rails etc	"	720 "
" " Switchboard	"	41 "
not Boxed - Red Plate & Riddet	"	916 "
Total		6667 lb.

Old style Dynamo with Bully

1883-03-05

## EDISON MACHINE WORKS,

104 Goerck Street,

New York, ..... 188

(2)

*New Style Boxes  
Containing Pulley or Amature*

"L" Dynamo - Boxed in 6 Boxes

Box containing	2 Cores & Field + 1 Keeper weights	2120 lb
"	2 " " + 1 " "	2120 "
"	Armature with pulley	850 "
"	Pillow blocks, Rocker Arm etc	501 "
Skidded	Red Plate + rails	1030 "
Box containing	Switchboard	33 "
Total		6654 "

*Old Style Boxes  
armature without Pulley*

"K" Dynamos Boxed in 7 Boxes

Box containing	2 Cores, 1 Field + 1 Keeper weights	2120 lb
"	2 " " + 1 " "	2120 "
"	2 " " + 1 " "	2120 "
"	Armature without Pulley	1012 "
"	Pulley, Pillow Blocks Rails etc	645 "
"	Switchboard	44 "
Skidded	Red Plate	1440 "
Total		9498 "

*New Style Boxes  
armature with Pulley*

"S" Dynamo - Boxed in 7 Boxes

Box containing	2 Cores, 1 Field + 1 Keeper weights	2120 lb
"	2 " " + 1 " "	2120 "
"	2 " " + 1 " "	2120 "
"	Armature with Pulley	1115 "
"	Pillow blocks, Rocker Arm etc	416 "
"	Switchboard	33 "
Skidded	Red Plate	1554 "
Total		9478 "

EDISON MACHINE WORKS,  
104 Goerck Street,

New York, Mar 5 1883

(3)

"C" Dynamo - 3 Red Plates + 18 Cores

Box containing	Part	Weight	Total
	Top Field	weighs	11360 lbs
"	1 Bottom "	"	5415 "
"	1 " " "	"	5415 "
"	1 Middle "	"	5350 "
"	1 " " "	"	5350 "
"	1 Engine "	"	6730 "
"	Armature	"	11640 "
"	1 Keeper	"	1200 "
"	1 " "	"	1200 "
"	1 " "	"	1200 "
"	1 " "	"	1200 "
"	1 Pillow Block	"	1200 "
"	1 " " "	"	1200 "
"	1 Zinc Base (Field)	"	620 "
"	1 " " (Keeper)	"	160 "
"	Sundries - Bolts etc	"	600 "
"	"	" Exciters do	1200 "
Not Boxed	Engine Red Plate	"	4680 "
"	Arma. " "	"	4200 "
"	Cores " "	"	2175 "
Total			<u>72095</u> lbs

You will notice by the above that we give two different accounts for the K & L Dynamo. The reason is, that <sup>the</sup> original shipments

1883-03-05

EDISON MACHINE WORKS,

104 Goerck Street,

New York, Mar 5 1883

(4)

the Pulley was packed separately from the armature & this proved a constant source of trouble, as armatures were ordered in a hurry & shipped out without their pulleys, which caused a double shipment every time such was the case. Therefore it was decided to pack the pulley & armature in one box & this change altered the size of boxes & necessarily their respective weights, although to no great extent.

The Blower used for a "C" Dynamo is Sturtevant's #6 - costing \$97  $\frac{75}{100}$  Net.

The only extra parts shipped with any dynamo, unless otherwise instructed, are the brushes, which number as follows for the various machines.

	Home Shipments	Foreign Shipments
	extra	extra
"E" Dynamo -		
"L"	6 "	10 "
"L"	4 "	8 "
"K"	4 "	8 "
"C"	"	20 "

Yours Respectfully  
Edison

Established 1855.

The George Place Machinery Company,  
Railway and Machine Shop Equipment,  
121 Chambers & 103 Rector Streets,

New York, N.Y. Feb 7<sup>th</sup> 1883

P.O. Box 1119

Dear Sir,  
Saulswell Eng  
704 City

When I stated to you that  
we would allow 25% off on all  
that is represented in our shafting  
catalogue I made a slight mistake  
you will notice by looking at the  
last page in the catalogue which  
gives price for hangers that our list  
price are exceedingly low, lower than  
any other self oiling & adjustable hanger  
we know of, we always get full list  
price for these hangers, but we will  
allow you 5% off in the shafting coupling  
& pulleys the discount is 25% but please  
bear in mind what I have stated to  
you several times that we will in any  
case meet competition.

Yours truly,  
Geo. W. ...

THE GEORGE PLACE MACHINERY COMPANY.

1883-03-10

Established 1855.

# The George Place Machinery Company.

Railway and Machine Shop Equipment,

121 Chambers & 103 Rector Streets

New York, N.Y. Feb 10<sup>th</sup> 1883

P.O. Box 1119

Dear Sir  
My City

Below are give you  
prices of different sizes of McAlister  
Carriers Friction clutch

10	20	30	40	50	75	H.P.
\$20	\$32	\$42	\$55	\$70	\$100	
100	125	150	175	Three foot		
\$135	\$160	\$180	\$206			

From these prices we will  
allow a discount of 5%

Don't forget we will meet  
any price on equal quality of goods  
we know we always try to sell  
the very best of everything.

Yours truly  
H. M. Liron

TO

*T. A. Edison Esq*

1883-03-12

OFFICE OF

EDISON MACHINE WORKS,

104 GOERCK STREET,

NEW YORK, *Mar 12 1883*

*Dear Sir!*

*Just received  
your note of wed date.*

*I will prepare to try the  
experiment referred to & will  
probably be ready in a short  
time from now.*

*Yours Respectfully  
C. L. Dean  
E.M.*



*Sent check  
to fac*

12  
OFFICE OF 1883-04-03

Edison Machine Works,  
104 Goerck Street,

New York, *April 3* 1883

S. Small Esq  
Dear Sir,

We rec'd Wednesday last  
notice that unless cash bills were sent  
in 24 hours the Gas would be cut off.  
Roeck promised check on Saturday  
but forgot it in the hurry of morning  
Please him enclosed check  
signed and mail the same to-day  
Yours etc  
Randolph

1883-04-27

Form No. 1.

**THE WESTERN UNION TELEGRAPH COMPANY.**

The Company TRANSMITS and DELIVERS messages only on conditions limiting its liability, which have been inserted in by the sender of the following message. Errors can be guarded against only by repeating a message twice in the sending station for comparison, and the company will not hold itself liable for errors or delays in transmission or delivery of Unrepeated Messages, beyond the amount of tolls paid thereon, nor in any case where the claim is not presented in writing within sixty days after sending the message.  
This is an **UNREPEATED MESSAGE**, and is delivered by request of the sender, under the conditions named above.

TIMOS, T. ECKERT, General Manager.

NORVIN GREEN, President

NUMBER	SENT BY	RECD BY	CHECK
473	Jp	R	29 Collect

Received at **791 BROADWAY.**

April 27 1883

Dated Plainfield N.J.

To S. Insull 65 1/2 Ave

Only deposited what you got from Kasting I would not give anything further to daughter just now there are no bills pressing will try to be in Monday. -Rosalie

This telegram has just been received at the office in 791 BROADWAY, near Tenth Street, where any reply should be sent.

DISPATCH WIRE.

1883-04-27

Randolph

Please take this  
out to Rocap & do  
not fail to let me  
have an answer  
by tomorrow morning  
Saturday - You  
read the note &  
you will see I ought  
to have an answer

Insell

Insull, you owe to hand  
you your Dougherty  
note for Feb a/c. Much a/c is  
recently overdue, and there  
are others more deserving  
than he. I should make  
him wait - Montgomery +  
Walkman you can pay if you  
like. They are small a/cs -

I know nothing  
about this 2nd 500 K. for  
Chicago. I should have  
shipped it on condition  
that we could have  
drawn for it tomorrow,  
but don't know what was  
done at all.

I doubt if  
you could use another  
draft at BTM - even should  
Chicago allow one. You

3 done so you <sup>1883-04-27</sup> need not  
hurry about getting  
back until you are  
thoroughly well —

Insure

Be sure & let me  
have answer tomorrow  
(Saturday) morning.

Pay Roll is \$732<sup>10</sup>  
I wired you to know  
what you deposited  
last Saturday — I think  
it was \$500<sup>00</sup> but am  
not sure.

Can see Mr Schell  
Pres.

Last Saturday  
I did not wait for  
check but Allen  
promised me he would  
deposit to our ac -  
See him for amt -

Rocap

J Insull Esq

151883-04-28

Apr. 28, 83

Dear Sir: Baranoff

Rocap was not so wild  
yesterday, He can scarcely drag himself  
around the House, he ought not to do that

about the Draft as Rocap  
says: you can hardly draw on Chicago  
Co without permission, you can of  
course telegram them for the favor of  
doing so, if answer is favorable you  
can draw check, I would of course  
find out at the bank ~~whether~~ if they  
would allow you to check out  
against Draft if they will not, you  
can mail bill to Chicago Co, and  
get check doubtless by return mail,

We have blank Drafts sent  
which will show how to draw them  
they are — at sight — pay  
to the order of ourselves

Fifteen Hundred Dollars —  
Value Rec'd and charge to a/c of  
Western Edition Light Co

— over —

E. M. Wolfe

I don't think Rocaf is dangerously  
sick providing he is prudent enough  
to avoid relapse -

Will see him ~~to morrow~~  
if you have anything to suggest  
to him Randolph



1883-05-21

EDISON MACHINE WORKS,

104 Goerck Street,

New York, May 21<sup>st</sup> 1883

Samuel S. Smith Esq.

Dear Sir!

Your of the 19<sup>th</sup> same duly  
to hand & contents noted.

We are going to use 80 lbs #16 R.M.S. .065" diam  
Hard Triple Cotton & Camphor Covered Copper  
Wire for each 400 Lt armature & 65 lbs  
for each con or 390 lbs for each dynamo, of  
Double Cotton Covered #16 R.M.S. .065" diam  
Copper wire. Trusting that this information  
is satisfactory, I remain,

Yours Respectfully

C. L. Deau Supt  
Per E. J. B.

6

1100

1883-05-28

OFFICE OF

Edison Machine Works.

104 Goerck Street.

New York. May 28<sup>th</sup> 1883

Saml Innuell Esq!

Dear Sir!

Your of the 26<sup>th</sup>  
came to hand this morning  
with Mr Cowles letter attached.

I herein send you the  
sample required & also return  
Mr Cowles letter as requested.

Yours respectfully  
W. L. Dyer Sup

THOMAS A. EDISON,  
NO. 65 FIFTH AVENUE.

1883-06-01

NEW YORK

June 1<sup>st</sup> 1883

Edison Mach. Works  
104 Goerck St  
City

Mr. Lusk!  
Will you please  
let me have a list of  
the due dates and amounts  
of any notes that you  
may have given  
Yours truly

Saml Insull

Note to	Dougherty	due June 26 <sup>th</sup>	\$616.75.
"	"	" July 10	711.99.
"	Dannas & Gill	" 24	699.91.
"	A. Shapton	aug 5	655.41.
"	Prutton Co.	" 18	908.42.
"	P. Carrick	" 24	585.17.
"	Prison Co.	Sep 1	749.75.

June 5/83 Over Receipt

Daughters 800

4 middle

Grandmother  
Mrs. [illegible]  
[illegible]  
[illegible]

Let me have a list of  
the the state and amounts  
of any other that you  
may have given  
Yours truly

[illegible signature]

1893	100	100
1894	100	100
1895	100	100
1896	100	100
1897	100	100
1898	100	100
1899	100	100
1900	100	100
1901	100	100
1902	100	100
1903	100	100
1904	100	100
1905	100	100
1906	100	100
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1993	100	100
1994	100	100
1995	100	100
1996	100	100
1997	100	100
1998	100	100
1999	100	100
2000	100	100

1893.06-05

COPY.

June 5th. 1883.

C. E. Rocab, Esq.

Edison Machine Works,

=104 Goerck Street, City.

Dear Sir:-

The following are the selling prices of dynamos quoted  
by me to Mr. Moore of the Isolated Co.:-

25	Light Machine,	\$175.00
50	"	250.00
100	"	375.00
200	"	725.00
300	"	1,075.00
400	"	1,500.00

Please note the above and oblige,

Yours truly,

(Signed)

Thos. A. Edison.

1883-07-05  
July 5/83

Insubl

Dynamics report  
will follow later. I can't  
get data owing to absence  
of hands in charge of  
armature Room. Recd

1883-07-06

EDISON MACHINE WORKS,

104 Goerck Street,

New York, July 6<sup>th</sup> 1883.

S. Ingersoll, Esq.  
65 5<sup>th</sup> Ave.

Dear Sir,

Replying to yours of 3<sup>rd</sup> inst. Mr Edison gave Mr Moon the following prices

for 25 light machine	175.	✓
50	250.	
100	375.	✓
200	725.	✓
300	1075.	✓
400	1500.	✓

400 ✓

After having carefully considered the matter of cost of raw material and labor I think the prices quoted for the 25, 300 and 400 light machines, with fair business will yield a good profit. If these machines could be turned out in 100 lots I believe as a result 40% net profit would accrue at the selling prices named. This percentage of course would decrease on smaller lots, and I think 40% to be about the maximum, so far as the prices is concerned.

The prices given on the 50 and 100 light machines are too low. 25. should be added in each case, and with this increase, under the same conditions as mentioned above not over 30% net profit would result.

As to the 200 light machine, the development thus far indicate a comparatively costly dynamo, since it requires 4 coils. The 300 light machine requires but 4 coils. You will note that the 400 light dynamo has 6 coils,

## EDISON MACHINE WORKS,

104 Goerck Street,

New York, ..... 188

and sells for \$1500. the 200 light 4 coils for \$1075. the 200 light 4 coils for \$725. It is true the 100 light machine has 4 coils, but they are very small, and this dynamo has developed remarkable capacity. It would seem that we get more out of some dynamos in proportion to the materials and cost than out of others. We may be able on the 200 light to reduce enough on material and labor to make the difference in cost compared with the 200 light, equal the difference in their selling prices; but if 4 coils are used I very much doubt it. Yet we do not seem to get the required capacity out of 2 coils. The tests by which Mr. Dean is guided in getting out his models for the 200 and 300 light machines were both made with an L dynamo. On the 200 lb 4-7 in. coils with 65 lb. wire on each coil were used. Armature was 18 in long and had 640 conv. bars with 65 lb. wire, and on the 200 lb. 4-8 in coils with 95 lb. wire on each coil were used. Armature an old L 50 volt was used which is 22 in. long, has 54 bars and 65 lb. wire.

If this data is followed in getting out the models, I do not believe there will be a difference of \$100. in the cost of these two machines.

The indications are I think that some experimenting should be done further with the 200 lb machine before going ahead.

In conclusion let me give the gross cost of our old dynamos, which were built last summer under the most favorable conditions



## EDISON MACHINE WORKS,

104 Goerck Street,

New York, \_\_\_\_\_ 188

and also the probable cost of the new ones.

K. dynamo	250 H.P.	\$ 887.67	in a lot of 125
L.	150 "	668.63	" " " 150
G.	60 "	330.89	" " " 100
C.	15 "	128.48	" " " 50
#	400 "	*8000.	" " " 100
	300 "	700.	" " " "
	200 "	550.	" " " "
	100 "	300.	" " " "
	50 "	200.	" " " "
	25 "	125.	" " " "

Yours very truly,

Richard Roepp

1883-07-25

*Received  
July 25 1883  
W. S. Keith*

OFFICE OF  
Edison Machine Works,  
104, Goerck Street,  
New York.

New York, July 25<sup>th</sup> 1883

J. A. Edmon Esq  
-Construction Dept.  
Brooklyn!

We have this day shipped to the Edison Electric Illum. Co. Shamokin. Pa. per C. R. R. of N. J., ten (10) Babbit Bearing Poles. Six of them are to replace the Phosphor Bronze ones now in the dynamo and the other two pairs are the <sup>one</sup> ones ordered on your order # 14, thus completing the same.

Yours Respectfully  
Ed. Dean Esq

P.S. We enclose shipping receipts, as that you can forward it to the right party or parties.

Per E. J. B.

THOMAS A. EDISON,  
Central Station, Construction Dept.,  
No. 65 FIFTH AVENUE,

1883-08-16m. 11.

New York, Aug 11<sup>th</sup> 1883

My dear Mr. Edison:  
I am anxious to know all about the machine you are making for me. I understand from Bergmann that the architect is at your Overck St. shop.  
Please write me a line giving dimensions of machine, and the size and speed of pulley.  
Also please state when it will be ready for delivery.  
Yours, truly,  
W. S. Keith

*W. S. Keith*

1883-08-13

Form L

THOMAS A. EDISON,  
Central Station, Construction Dep't,  
No. 65 FIFTH AVENUE,

AUG 14 1883  
ANSWERED

New York, August 13th, 1883

FILE No. ....

Charles E. Rocaf, Esq.

Edison Machine Works,

104 Goerck Street,

Dear Sir:-

*If a set of boxes cost the machine works \$25, there must be something damnably rotten at the Machine works =*

Referring to the enclosed bill, dated the 25th. July,

for Babbit bearing boxes sent to Shamokin, I beg to draw your attention to the fact that you have charged \$30. a set for these boxes, which is the same price that you charge for phosphor bronze boxes. It seems to me that such a price is out of proportion to the value of the boxes. So far as I understand it they are simply cast iron pieces lined with Babbit.

It is my impression that when settling up with the Shamokin Company, if we presented any such charge there would naturally be a "kick", so return you the bill assuming that there must be some error in billing them at such a rate.

Very truly yours,

*Inault,*

*Sam Inault*

*There is only a difference in wt. of 1 1/2 lbs. between a set of Babbit & Phos. bronze boxes. The Bronze costs me 32 1/2 ct. the Babbit 36 ct. a set of bronze costs me \$25.*

Enclosure.  
*Rocaf*

1883-08-16

EDISON MACHINE WORKS,

104 Goerck Street,

New York, Aug 16<sup>th</sup> 1883

Samuel Inceff Esq  
65 Fifth Ave.

Dear Sir!

This day I received a letter from Mr Stutshinson, asking me to deliver the  $8\frac{1}{2} \times 10$  A.S. Engine and the "K" B. Dynamo. to "Hibbs Garden."

He mentions that he had made arrangements with you, about this Engine & therefore I write this letter to you.

I do not think I can spare this engine, (and I have written so to Mr St. today) on account of not having any other to test with.

The O & A. Engine will not be ready for a week or two; so if I send the  $8\frac{1}{2} \times 10$  away, I will be idle until the former is ready for work. I asked Mr Stutshinson to let me know if he could arrange the matter so that I could keep this; but if he couldn't I would have to let him have it.

Yours Respectfully.

P.S. Without this Engine  
Mr Clarke cannot  
test his instruments.

J. L. Edison Esq

New York Aug 18<sup>th</sup> / 85

Samuel Insull Esq

Dear Sir I herby report  
to you the following statement  
of Mr Wheatley Prof. Fin  
ishes &c regarding D - n  
that he Wheatley was forced  
to give up the work on  
account of the demands of  
of D - n which amounted  
to far more than the profits  
of the <sup>work</sup> " Mr Wheatley says that  
D - n is aided and abetted  
by parties in office in Gosport  
St. and says one Williams  
had contracts and paid  
at least 25 per cent to D - n  
Mr Wheatley is at Lewis & Bond  
Houston & 2nd St.

Henry Frases worked at the  
shop received \$9 - was on  
the pay rolls at \$12 says  
that large lots of material  
was sold by D - n while  
he was employed there  
Frases will return to the city  
next week. These facts  
will substantiated by Mr. Elder

Mr Paine Mr Farrell  
Davidson & Potter

The woman D. — in keeps  
has several thousand dollars  
is in the bank which  
she received from D. — in  
I will be able to give  
some very decisive facts  
on Thursday when I meet  
Mrs Farrell

Respectfully Yours

Wm Anderson

12

Miss Quaine  
1876

~~Wm Anderson~~

Wm Anderson

1883-08-20

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'Honneur  
PARIS 1889

Ivry sur Seine le 20<sup>th</sup> Aug<sup>r</sup> 1889  
5, RUE DU PARC.

079

J. Russell Esq<sup>r</sup>  
65 Fifth Avenue  
New York.

My dear Russell

In answer to your letter of 6<sup>th</sup> inst. only to hand this evening, I would say that Cunningham has left for America, therefore cannot speak to him about it.

I had an idea, from the time you told me that Dean had made so much money by contract, that there was something very crooked about it and if I had had time when in America, I should certainly have asked you to open up the books for me. Well believe that if he finds anything of the sort he ought to take very strenuous measures as there is no thing we can lose more money in than a dishonest manager.

Yours faithfully  
Edison

1883-08-20

# Southwark Foundry and Machine Company,

ENGINEERS AND MACHINISTS.

SOLE MAKERS OF

THE PORTER-ALLEN HIGH SPEED STEAM-ENGINE,

BLOWING ENGINES, STEAM PUMPS, MINE PUMPS,  
WATER-WORKS PUMPING ENGINES, CENTRIFUGAL PUMPS, HYDRAULIC ELEVATORS.  
No. 490 WASHINGTON AVENUE.

JOS. L. FERRIS, GENERAL MANAGER.  
CHAS. B. HIGGINS, SUPERVISOR.  
G. A. BISHOP, ASSISTANT MANAGER.

Philadelphia, Aug. 20 1883

Dear Mr. Insell,

I thank you for your favor of 18th inst. advising me that the Engine of Gouck St. will be ready for us on Thursday or Friday next. We will get them ourselves accordingly.

I would feel greatly obliged if you could this week favor me with a settlement of "Machine Works" account. I am making certain arrangements which would be greatly facilitated if you could kindly aid me in this matter.

Very truly yours

SOUTHWARK FOUNDRY & MACHINE CO.

Jos. L. Ferris  
General Manager

Address all communications to the Company.



1883-08-20

# Southwark Foundry and Machine Company,

ENGINEERS AND MACHINISTS,

SOLE MAKERS OF

THE PORTER-ALLEN HIGH SPEED STEAM-ENGINE,

BLOWING ENGINES,

STEAM PUMPS,

MINE PUMPS,

WATER-WORKS PUMPING ENGINES,

CENTRIFUGAL PUMPS,

HYDRAULIC ELEVATORS.

No. 490 WASHINGTON AVENUE.

JOS. L. FERRILL, GENERAL MANAGER,  
CHAS. B. RICHARDS, SUPERINTENDENT,  
G. A. BROWN, ASSISTANT AND TREASURER.

Philadelphia, Aug 20<sup>th</sup> 1883

Saml. Insell Esq.  
Edison Illuminating Co. }

Dear Sir:

As we have made a number of new parts, which we wish to apply to the engine you kindly propose to put at our disposal at Coacoh St, we shall have occasion to fit the new pieces to the old; and to facilitate this we will thank you to send to us by express, at once, the following parts of the engine which we are to deal with.

The Eccentric straps and links complete,  
with its block and pins.

The Sustaining arm upon which the link rocks.

The rod which lead from the link block to drive the steam valves.

The two suspension Girds by which this rod is hung to the end of the governor lever.

The governor lever with the pin which connects them together and forms the axis on which they turn.

The steam valve rock shaft with its two levers.

The Exhaust valve rock shaft with its two levers.

Yours very truly

Chas. B. Richards.

1883-08-23

WILLIAM A. HARDING,  
Professional Accountant,  
Rouse C. & D.  
N. Y. Life Insurance Building,  
No. 340 Broadway,  
P. O. Box 1190.

NEW YORK, August 23<sup>rd</sup> 1883

Dear Sir,  
 I have received your favor of the 21<sup>st</sup> inst. and am glad to hear that you are well.  
 I will be in New York on Monday the 27<sup>th</sup> of August at about 10 1/4 o'clock for my usual place of business, one of my best accounts, is at Dr. Huntington's, but I expect him to be here by Tuesday next. I will commence work here on Monday 10 1/4 o'clock.  
 I have been from you by Saturday P.M. that you would prefer making me at another hour. I remain  
 Yours Very Respectfully  
 William A. Harding

1883-08-27

LAW OFFICES OF  
ECCLESINE & TOMLINSON,  
32 PARK PLACE,

THOS. C. E. ECCLESINE  
JOHN C. TOMLINSON.

NEW YORK, Aug 27 1883

Received from Mr Thomas. A. Edison  
One hundred dollars (\$100<sup>00</sup>/<sub>100</sub>) on  
account of matter of Charles L.  
Dean.

Ecclesine & Tomlinson

1893-08-27  
EDISON MACHINE WORKS,

104 Goerck Street,

New York, Aug 27<sup>th</sup> 1883

Mr Insull.

65 Fifth Ave  
Dear Sir!

Enclosed. I send you a statement of all the bills to be paid by these works <sup>and</sup> also one showing the amounts due them, as required by you.

On the stubs of the Notes, given to Arrington & Sims Co. dated Aug 2/83 & Geo N. Sicker, dated Aug 20/83, there is no mention whether they were Isolated C. Notes or not. They have no numbers, as the regular Machine Works Notes have.

If these are the Isolated C. Notes, then please deduct \$1107 <sup>85</sup>/<sub>100</sub> from the amount against them.

Yours Respectfully,

Ernest J Berggren

P.S. Most of these <sup>are</sup> Payable accounts, have been running for some time <sup>and</sup> we have been visited by nearly all the parties concerned.

Dannat & Pell have been urging us, as well as Nathan and Greyfur, John Roach & Thompson & Dorrance, more than any one else.

E J B

[TO SAMUEL INSULL]

Plainfield

Aug 28

12 | Should you require  
any information about  
the books which I am  
away Randolph is likely  
able to give you.

1883-08-29  
Southwark Foundry and Machine Company,

ENGINEERS AND MACHINISTS,

SOLE MAKERS OF

THE PORTER-ALLEN HIGH SPEED STEAM-ENGINE,

BLOWING ENGINES,

STEAM PUMPS,

MINE PUMPS,

WATER-WORKS PUMPING ENGINES,

CENTRIFUGAL PUMPS,

HYDRAULIC ELEVATORS.

No. 430 WASHINGTON AVENUE.

JOS. L. FERRELL, GENERAL MANAGER.  
CHAS. S. RICHARDS, SUPERVISOR.  
G. A. BOSTWICK, SECRETARY AND TREASURER.

Philadelphia, Aug 29<sup>th</sup> 1883

Samuel Russell Esq.

Dear Sir:

The inability to procure the parts of the experimental engine occasions some delay in completing our preparations for the trials, and we would prefer to postpone action in the matter until after the return of Mr. Ferrell from an absence from home which will continue until Wednesday next, immediately after which he hopes to visit you again -

Meanwhile as there are weighty reasons why we wish to obtain from you the promised settlement of our account, we shall esteem it a favor if you will send us the remittance before Saturday or Monday next.

Yours very truly

SOUTHWARK FOUNDRY & MACHINE CO.

Chas. S. Richards. SUPT.

1883-08-20

EDISON MACHINE WORKS,

104 Goerck Street,

New York, Aug 30<sup>th</sup> 1883

Saml Durull Esq  
65 Fifth Ave.

Dear Sir!

Enclosed please find check for \$47<sup>00</sup>/<sub>100</sub> from Dr Richardens in payment of the accompanying Edison Machine Works bill.

Please receipt these bills & return them to me so that I can deliver them to Dr Richardens & oblige.

Yours Respectfully  
E. J. Berggren

P.S. Mr Saldan says he cannot have any more "A" Dynamos ready for shipment before next week. He thinks he will have the 2 ready for Lawrence by Tuesday, but not before, on account of the 100 or Dynamos Mr Hutchinson wanted at the end of this week.

EJB

1883-08-31

RECEIVED  
SEP 5 1883  
FILE NO. 104

EDISON MACHINE WORKS  
104 Goerck Street,  
New York

Wrote saying we  
will make ~~two~~ <sup>three</sup> ~~sets~~ <sup>sets</sup> of  
\$300 each ~~payment on~~  
65 Fifth Ave New York

Dear Sir

Your letter dated  
yesterday asking for blue prints of the  
detail of the "H" + "S" Dynamo is at  
hand.

The tracings are not quite finished  
but as soon as they are, I will send  
them to you.

You can safely close the contract  
for the 2 Crank shafts at \$300 # each.

Yours Respectfully  
J. H. ...  
Super



1883-08-31

EDISON MACHINE WORKS,

104 Goerck Street,

New York, Aug 31 1883

Hutchinson Esq  
65 Fifth Ave  
Dear Sir!

Please let me know  
where you want the 5" dynamo, shipped to,  
that you wanted this week, so that our men  
will know, whether to look them for  
foreign shipment or not. voblige.

Yours Respectfully  
E. Berggren

I will  
I think these  
dynamos ~~goes~~ to New  
England Dept. J. J.

1883-09-05

OFFICE OF

Edison Machine Works.

104 Goerck Street.

New York, Sept 5<sup>th</sup> 1883

*File*  
Saml Insull Esq  
65 Fifth Ave

Dear Sir!

Your's of yesterday  
at hand. Enclosed please  
find the original letters & telegram  
sent by Mr. A. C. Blackmer and  
also copies of letters & telegram  
sent to him by the Edison Mach.  
Works.

The enclosed is everything  
I can find relating to  
A. C. Blackmer.

Please return his letters  
as soon as you are through  
with them & oblige.

Yours Respectfully  
E. J. Berggren

1883-09-06

RECEIVED  
SEP 7 1883  
ANSWERED

EDISON MACHINE WORKS,

104 Goerck Street,

New York, Sep 6<sup>th</sup> 1883

.....183.....  
FILE NO.....

Saml Insull Esq!  
65 Fifth Ave.  
Dear Sir!

The N. Armature received from Astron Herald on the 3<sup>rd</sup> Inst has its shaft journal on the Pulley side badly cut, which will necessitate turning off consequently the bearing box now in the machine, will not be available.

I will therefore have to make a new box for this journal; but I wish you would ask the Isolated Co what to do. Awaiting your reply, I remain

Yours Respectfully  
Edison  
Sup

E. Co written for  
Arthur to do the  
work

1223-09-06

EDISON MACHINE WORKS,  
104 Goerck Street,

New York, Sept 6<sup>th</sup> 1883

Saml Insull Esq  
65 Fifth Ave.

Dear Sir!

SEP 7 1883  
RECEIVED  
FILE No. ....

Yours of this date asking for weights & measurements of the 25<sup>th</sup> Box, is at hand.

The following is a complete list.

In a few cases I was obliged to calculate the weights, but I am certain, I am not more than a couple of pounds out of the way.

There are five cases in all.

- |                                             |        |                         |
|---------------------------------------------|--------|-------------------------|
| 2 Boxes, measuring 33" x 18" x 9" - 380 lbs | Back - | Contain Cover & Keepers |
| 1 " " " 16 x 12 x 19 1/2" - 180 "           | "      | Field (complete)        |
| 1 " " " 9 x 9 1/2 x 34 1/4" - 106 lbs       | "      | Armature & Pulley       |
| 1 " " " 37 x 2 x 17" - 350 "                | "      | Bedplate, Pillbox &c    |

The size of pulley is 5" Diam x 4" Face and the armature makes 1600 revolutions per minute.

25<sup>th</sup> Made!

Height 35 1/4" from floor  
Size of Bedplate 31 x 17 1/2"

Yours Respectfully,  
Gustav T. Edison  
Super

THE EDISON COMPANY  
FOR ISOLATED LIGHTING.

1883-09-12  
GENERAL MANAGER'S OFFICE,  
65 FIFTH AVENUE.

Please address reply to the undersigned.

New York,

Sept 12<sup>th</sup> 1883

Edison Machine Works.

City

Gentlemen:

Referring to quotations for  
new dynamos, we beg to give  
below the prices given by Mr. Edison

25 light	\$175.
50 "	250.
100 "	400.
200 "	725.
300 "	1075.
400 "	1500.

Yours truly  
J. Hutchinson

1883-09-12

RECEIVED  
SEP 13 1883  
ANSWERED  
FILE NO. 1

OFFICE OF

Edison Machine Works,

100 Clerck Street

New York,

them write  
to parties  
Sept 22<sup>nd</sup> 1883

Sam'l Insull  
65 Fifth Ave.

Dear Sir,

Get planning  
Why you send  
them

In regard to the "Boston Herald" arna, I would ask you whether to send the set of babbitt boxes I had scarp- ed down to fit the journals or not otherwise I do not think the arna will run properly in the pillow-blocks, as the arna was turned down awaiting your instructions - I remain

Yours Respectfully  
Gustav S. Supt.

P.S. They have Phosphor Bronze brass  
+ want Babbitt instead

1883-09-12

SOCIÉTÉ INDUS<sup>RIELLE</sup> & COMM<sup>ERCIALE</sup> EDISON

Société Anonyme, Capital 1,500,000 Francs.

549 à Ivry s/ Seine, 5, Rue du Parc

Grand Diplôme  
d'honneur  
PARIS 1881

Joury, le

Sept. 12<sup>1883</sup>

My dear General,

I was afraid that something like what you tell me would happen as regard Goerck & Machine Works - If it is not worse I shall be satisfied - You know I can not have paid an enormous sum to the piece work men here to make the price as high - I am anxiously awaiting the results of the enquiry

Very truly Yours  
Edw. Spratcliff

1883-09-14

RECEIVED  
SEP 20 1883

OFFICE OF

Edison Machine Works.

104 Goerck Street,

FILE No. ....

New York, Sept 14 1883

Wm A. Edison Esq.  
65 - Fifth Ave

Dear Sir,

(The dimensions of pulley for "H" Dynamo, to be shipped to Genoa is 14" dia x 12 1/2" face, Revolutions from 1050 to 1060 per minute.

If we receive order from Isolated Co. for H. Dynamo we can ship it, four hours after receipt of order

Yours Respectfully  
Justin L. Loring, Supt.

1883-09-14

OFFICE OF

Edison Machine Works.

104 Goerck Street,

New York, Sept 14 1883

RECEIVED

SEP 20

FILE No. 133

Saml Insull Secy  
65 Fifth Ave

Dear Sir;

We are all out  
of large letter pads, and  
we need some, would you  
please order some, we never  
gave Arthur & Bunnell an order  
from order book for such.

Yours Respectfully  
Gustav Bunnell

Mr. Bunnell  
Please see me  
about Form  
numbers etc.  
G. Bunnell

1883-09-14

OFFICE OF

Edison Machine Works.

104 Goerck Street,

New York, Sept 14 1883

RECEIVED

SEP 14 11

ANS

Sept 14/1883

FILE No.

Saml Insull Secy  
65 Fifth Ave

Dear Sir;

(The pay roll  
is all made up, with the  
exception of contracts, if you  
want any to go in this week  
if not, do you want pay roll  
sheet and envelopes up at Fifth  
ave.

Pay Roll amounts to \$ 851.42  
Contracts " " 1048.62

Yours Respectfully  
Alphonse Westac



1883-09-20

# Southwark Foundry and Machine Company,

ENGINEERS AND MACHINISTS.

SOLE AGENTS  
THE PORTER-ALLEN HIGH SPEED STEAM-ENGINE,  
BLOWING ENGINES, STEAM PUMPS, MINE PUMPS,  
WATERWORKS, PUMPING ENGINES, CENTRIFUGAL PUMPS, HYDRAULIC ELEVATORS.  
No. 430 WASHINGTON AVENUE.

JOS. L. FORTNA, GENERAL MANAGER.  
CHAS. B. THORNTON, SUPERVISOR.  
G. A. BOSTWICK, SECRETARY AND TREASURER.

Philadelphia, Sept. 20 1883

Mr. Saul. Merrill

Dear Sir:

I regret very much that you have  
been ill. I informed that you were  
either ill or away from the city, or  
I should have kept to from you before.  
From the time of our conversation  
I was perfectly safe in relying  
on you for the details of the Machine  
Work account. I refer now and  
I did so rely. I had a payment  
of \$3000 to make this week and  
I felt sure of your aid. I am much  
disappointed, but trust to receive  
next Tuesday your check in  
settlement. The new High Speed  
Engine is doing practical work  
aiding in doing the Machinery  
here and doing splendidly. You  
& Mr. Edison should certainly see it.

SOUTH WARK FOUNDRY & MACHINE CO.

Address all communications to the Company.

Jos. L. Knell

General Manager

1883-09-15

OFFICE OF

RECEIVED

Edison Machine Works,

104 Goerck Street

New York, Sept 17 1883

Mr. A. Edison  
65 Fifth ave;

Dear Sir:

There is no difference  
between the S. H. Brush in diameter  
but the L. Brush is soldered to  
the trough while the H. Brush  
is movable in a shorter trough  
which is fastened to the brush  
holder

Yours Respectfully  
Lester Watson Supt

The brushes are made so that  
they cannot be substituted

Form No. 1

*Hatchers Works*

1883-10-06

**THE WESTERN UNION TELEGRAPH COMPANY.**

This Company TRANSMITS and DELIVERS messages only on conditions limiting its liability, which have been assumed to by the sender of the following message in consideration of delivery of telegraphed messages, beyond the receipt of which interest, and in any case where the liability is not presented in writing within sixty days after the date of the message.  
This is an **UNRECORDED MESSAGE**, and is delivered by request of the sender, under the conditions named above.  
**THOS. T. SCHEPPE**, General Manager. **NORVIN GILKEN**, President.

NUMBER	SENT BY	TO	CHECK
107	<i>C. B. Rocap</i>	<i>WPA</i>	<i>103</i>

Received at **852 BROADWAY.** *Oct 6 1883*

Dated *Plainfield N.J.*

*Soil Menall - 1/65 5 are!*

*Please send three twenty five*

*Cash and three hundred short*

*Notes C. B. Rocap*

This telegram has just been received at the office in 852 BROADWAY, just below Fourteenth Street, where any reply should be sent.  
**DIRECT WIRES.**

[INCOMPLETE. TO SAMUEL INSULL?]

Southwark Foundry and Machine Company, <sup>1883-10-06</sup>

ENGINEERS AND MACHINISTS,

SOLE MAKERS OF

THE PORTER-ALLEN HIGH SPEED STEAM-ENGINE,

BLOWING ENGINES,  
WATER-WORKS PUMPING ENGINES,

STEAM PUMPS,  
CENTRIFUGAL PUMPS,

MINE PUMPS,  
HYDRAULIC ELEVATORS.

490 WASHINGTON AVENUE.

JOS. L. FERRIS, GENERAL MANAGER,  
CHAS. B. RICHARDS, SUPERINTENDENT,  
G. A. BORTCH, SECRETARY AND TREASURER.

Philadelphia, 10/6, 1883.

Your promises to me, were made the basis  
of absolute promises to my people, and  
I am sorely harassed about the matter.  
I want you to understand that there  
is nothing but the kindest disposition,  
but as I am pressed, so must I give a  
definite account of my stewardship, and  
I can only do so by your help.  
We were over on Tuesday with our ex-  
pect to see Engine at Machine Works. Our  
man will take the matter up next  
week.

Very truly Yours,  
SOUTHWARK FOUNDRY & MACHINE CO.  
Jos. L. Ferris  
General Manager.

Address all communications to the Company.

Machine Works  
WILLIAM A. HADSON,  
Professional Accountant,  
Rosen C. & O.  
N. Y. Life Insurance Building,  
No. 346 Broadway,  
N. Y. City 10013.



1883-10-08

NEW YORK, Oct 8<sup>th</sup> 1883

Friend  
of Edison Building  
Dr. J. M.

After a year of Sept 25<sup>th</sup>  
was received - I have been absent from the  
City almost all of last week on getting  
to my office this a. m. I do not find  
any letter for you "you wrote" I will  
"send you a check Early next week"  
is now last week

Kindly send check if it has not been  
sent  
Yours  
William A. Hadson

Plainfield Oct 10/83

Please take notice that if  
I do not receive a remittance  
from you tomorrow I shall  
draw on you at sight  
\$350.

Chas. E. Wocap

Blank No. 3

Maconna 4/5

1883-10-15

No. 23

CABLE MESSAGE.

321

THE WESTERN UNION TELEGRAPH COMPANY.

Co  
7 Berlin

ALL CABLE MESSAGES received for transmission must be written on the Message Blanks provided by this Company for that purpose, under and subject to the conditions printed thereon, and on the back hereof, which conditions have been agreed to by the sender of the following message.

A. R. BREWER, Secretary.

NORVIN GREEN, President.

Edison 65 = fifty words  
direct at 832 Broadway

Oct 15 1883

When 25 fifty models.

Soldan will answer Edison

Fifty - next day  
25 - 7 o'clock

1883-10-18  
THE EDISON LAMP CO.,

EAST NEWARK, N. J.

T. A. Edison Esq  
65 5th Ave

Dear Sir:

Enclosed find  
circular describing wooden  
pillars mentioned by me  
yesterday - The superintendent  
of these works offered to send  
you one as sample - and  
will make them - right size  
for 34" dynamo for about  
\$5 each - I have seen a num-  
ber in use and the users  
spoke highly of them  
Yours truly  
J. W. Howell

TO  
DODD & B  
INCIDENT 387

JIM HOWELL

Enclosed in envelope

Mr Howell

I wrote you some time ago -  
Have you had any  
reply?

Jake

1883-10-23

**IMPORTANT.**

*Merchants who have debts which they cannot collect, would do well to place them in a lawyer's hands, who can, if the parties be worth anything at all, force them to pay, where they otherwise certainly would not.*

*The undersigned has made a specialty of this branch of law business, and his terms are the lowest,—being 5 or 10 per cent. on the amount collected, according to trouble, and where it exceeds \$300, one-half the above rates on the excess.*

*It will cost nothing to try to collect your debts, as, if no collection is made, no fee is charged.*

*It is surprising how careless merchants sometimes are in regard to claims which they cannot themselves collect, and therefore deem worthless. A large percentage of the profits in some businesses is swallowed up by bad debts, which, if they had been promptly attended to, might have been made to realize something. Debtors who pay no attention to their creditors' demands, will often settle at once if written to by an attorney, threatening immediate suit. Of course no suit will be brought without express advice from the client.*

*Collections made in all parts of the country.*

*Address communications to*

JOSEPH J. McDERMOTT,  
ATTORNEY AND COUNSELLOR AT LAW,  
Room 27, 21 & 23 Pine St., New York.

105 Fulton St., N. Y., Oct. 23d, 1883.

Messrs. *Edison Machine Works*

Dear Sirs:

Allow us to introduce to you Mr. Joseph J. McDermott. He has been very successful as our attorney, and we recommend him to you most highly.

Very truly yours,

*Montgomery & Co*



All Communications to be  
addressed to the Office.

Form 1 A.

1883-10-29

Works,  
104 George Street.

EDISON MACHINE WORKS.

OFFICE, 65 FIFTH AVENUE.

New York, Oct 29 188<sup>3</sup>

Samuel Insull Esq  
Dear Sir:

The following  
is a report giving the number  
of Dynamoes we have been ordered  
to make, the number that are  
finished, sold, & those now  
under construction & on hand.

Ordered to make	Finished	Sold - on hand	Under Const
10 "H" (400 Fr) Dynamoo	10	4	6
10 "Y" (300 Fr) " "	1	1	9
10 "G" (25 Fr) " "	-	-	10
10 "R" (50 Fr) " "	4	1	9
10 "S" (200 Fr) " "	-	-	10
10 "I" (100 Fr) " "	10	10	-
Excl 200 Fr Dynamoo	1	1	-

Yours Respectfully  
Edison Mach. Works

Chas E. FERGUSON

Orders not filled  
Eight (8) 50 Fr Dynamoo  
Three (3) 25 " " "  
Four (4) 300 " " "  
Three (3) 300 " " "  
One (1) 400 " " "

1883-11-05

J. G. Sweet, Treas.,  
H. F. Stephens, Sec.,  
C. A. Sweet, Treas.,

The Straight Line Engine Co.,

Cor. Geddes and Fayette Streets.

Syracuse, N. Y. 5<sup>th</sup> Nov 1883.

Thos. A. Edison M. C.  
65-5<sup>th</sup> Ave. New York.

Dear Sir,

Your esteemed favor of the 3<sup>rd</sup> at hand  
and contents noted

The directors of your company are to hold a  
meeting on Wednesday at which time your  
enquiry will be considered and a reply given  
as soon as possible

Very respectfully  
The Straight Line Eng. Co.

JW

1883-11-09

OFFICE OF

Edison Machine Works.

104 Goerck Street,

New York, Nov. 9<sup>th</sup> 1883

Thomas A. Edison Esq.  
65 Fifth Ave -  
New York.

Enclosed please find formulas  
filled except data for low speed  
which I shall be able to give  
to-morrow. The sizes of the  
mechanism given are not exact.  
~~It~~ I have two draughtsmen  
engaged and at work.

Respectfully

Yours  
G. Adams

J. G. Sweet, Treas.,  
H. F. Stephens, Sec.,  
C. C. Sweet, Treas.,

The Straight Line Engine Co.,

Cor. Geddes and Fayette Streets.

Syracuse, N. Y. 14<sup>th</sup> Nov 1888

Thomas A. Edison - N. Y.

Dear Sir,

We were not able to settle definitely last Wednesday as to royalties upon which you could build our engines owing to the fact that it is necessary to arrange with the parties who have an exclusive license for the work - not for three years from July 1/80 -

So far as this Company can control the directors are willing to fix the royalties at about 30¢ per square inch of piston area. That is for cylinders of six inch bore \$5.00 seven inch \$20.00 eight inch \$25.00 nine inch \$30.00 ten inch \$40.00 eleven inch \$50.00 twelve inch \$60.00 -

Payments to be made every six months on all engines put in use. We believe we can arrange for the same license for the territory held by the A. C. Sullock Mfg. Co. Our present agreement with them gives them all west of Lake Michigan north of the Ohio, and west of the Mississippi.

We are willing to furnish a set of blue prints of each engine you may require, that we have drawings for at 100¢ per engine - and make such drawings as you may wish us to make at the cost.

To Thos. A. Edwin - 2

French work. We will furnish castings from our  
 factories if you should require any while starting  
 your work - at  $3\frac{1}{2}$ ¢ per pound. The ODS case here  
 also castings from any special tools we may have  
 that you require at  $4\frac{1}{2}$ ¢ per pound. Any parties  
 whom you may send for will have every oppor-  
 tunity to inspect our tools and methods and every  
 suggestion our experience dictates will be gladly  
 given. No restrictions will be imposed in regard  
 to such changes - if any - as may need to fit the  
 engines of your purpose - except they must not  
 be design in concerned be subject to the approval  
 of our other work. By design we mean that  
 which relates to the tools of the engine -

As soon as we can get a copy from Chicago,  
 we will advise you as to what can be done  
 with the western territory. We can furnish  
 drawings and castings for iron or steel as you  
 prefer - promptly -

Very truly,  
 The Straight Line Eng. Co.

1883-11-15

J. S. Street, Esq.,  
K. F. Stephens, Sec.,  
4, A. Street, Decatur,

## The Straight Line Engine Co.,

Cor. Geddes and Fayette Streets.

Syracuse, N. Y. Nov 15 1883Thomas A. Edison M.E.  
#65 Fifth Ave New York.

Dear Sir;

Yesterday P.M. we received an answer from the M.C. Bullock Mfg Co of Chicago to our inquiry to them, and we immediately telegraphed to you to know if you could meet our No. 1 unit to-day, not receiving a reply we did not go to N.Y. and as we wish to say that for all territory under our control we will license your Co to build the Straight Line Engine on the terms mentioned in our letter of the 10<sup>th</sup> inst, and for all engines sold in the balance of the territory in the United States, that is in the territory held by the M.C. Bullock Co of Chicago, your Co to pay 150% more that is for a 6 inch \$22.50, 7 inch \$30.00, 8 inch \$37.50, 9 inch \$45.00, 10 inch \$60.00, 11 inch \$75.00, 12 inch \$90.00.

Should this proposition be in the main acceptable to your Co, and there be any minor points which you desire to talk over the next will come to New York, or are you when

The Straight Line Engine Company. 1883-11-15

To Thomas T. Edison 2

It is true which will be in a week  
or two at latest.

An early reply as to the probable consummation  
of an agreement will greatly oblige.

Yours Truly,  
The Straight Line Engine Co

P.S. An Agent will be in New York  
on the 22<sup>nd</sup> inst.

OFFICE OF

Edison Machine Works.

104 Goerck Street,

New York, Nov. 22<sup>d</sup> 1883.

Thomas S. Edison Esq.

Dear Sir:

In regard of Mr. Geo. H. Bliss  
complaints about defective Armatures  
L. No. 119<sup>a</sup> and K. No. 105<sup>a</sup>  
I state that in L. No. 119<sup>a</sup> we found  
a piece of a ~~knip~~<sup>leaf</sup> sticking  
between two commutator bars, which  
certainly has not been done here.

L. No. 119<sup>a</sup> has never been repaired  
here and must have gone long before  
my time. There is no record of it.

K. No. 105<sup>a</sup> was shipped Aug. 20<sup>th</sup>  
1883 by Ernest, before I took charge  
and was declared O.K. by Mr. Bliss.  
We find the commutator bars loose  
and have to rewind the armature.

Yours Respectfully  
G. H. Allen



J. S. Street, Pres.  
W. F. Stephens, Sec.  
A. C. Street, Treas.

The Straight Line Engine Co.,

1883-11-26

Cor. Geddes and Fayette Streets.

Syracuse, N. Y. Nov. 26 1883

Thomas A. Edison M. E.

65 Fifth Avenue, New York

Dear Sir,

OK send formal order for us to make a set of drawings

We have not received the letter in regard to the acceptance of our offer regarding building our engine, and giving order for castings and patterns for 10x12. We have now received the order to be made and have started the drawings. Have you a draughtsman that you can spare and one that you would like to have familiarize himself with the inwardness of the engine. I so send him at once. We cannot get the iron from Chicago under two weeks and expect to have the pattern-makers at work before that time. Mr. Street did not go to your Works on Friday in accordance with agreement, as your Private Secretary said you were not to be there. It will probably be better for me to make one set of castings here, and see if the patterns are correct. I will also finish the wheels, shafts, and governor, as we have special tools and experience in adjusting, that will save time.

Very Respectfully,  
The Straight Line Engine Co.

THOMAS A. EDISON,  
Central Station, Construction Dep't.,  
No. 65 FIFTH AVENUE,

1883-11-30 Form II.

New York, Nov 30<sup>th</sup> 1883

Received from Thomas A. Edison  
One Thousand Dollars for  
settlement of claim of Charles  
E. Roop, & Jus.

John L. Tomlinson

Dec 5<sup>th</sup> 1883

Received from Thomas A. Edison  
One hundred dollars in full  
payment of services in the  
matter of the claim of Charles  
E. Roop.

John L. Tomlinson

Paid Charles E. Roop in full settlement  
of claim one hundred dollars.  
Dec 5<sup>th</sup> 1883

John L. Tomlinson

J. S. Sweet, Treas.  
H. F. Stephens, Sec.  
C. C. Sweet, Treas.

The Straight Line Engine Co.,

Cor. Geddes and Fayette Streets.

Syracuse, N. Y. Dec 6 1883

Thomas A. Edison M. E.

65 Fifth Ave - New York

Dear Sir,

On letter of yesterday at hand,  
We have already got the drawings so far advanced  
on the 10 X 12 engine, as to have three pattern-  
makers at work, and will be glad if you  
will send on one of your pattern-makers,  
in whom you had confidence, as his  
experience engrafted on our own, will be  
useful to you in the future.

We have room to work one more, and  
have not been able to find another here.

Very Truly,  
The Straight Line Eng. Co.

Ask Saldan if he has got  
his pattern maker & what he  
thinks of complying with  
this request E

RECEIVED

DEC 10 1883

ANSWERED

Dec 10 1883

FILE NO.

Established 1855.

1883-12-12

The George Place Machinery Company,  
Railway and Machine Shop Equipment,  
121 Chambers & 103 Rector Streets

P. O. Box 1119.

New York, Dec 12 1883

Mr A Edison Dear Sir

When you talked with me  
on the steamer asking whether I knew  
of a party capable of taking charge  
of your track at Wk, I overlooked  
one man who I think would be of  
very good service to you in that  
capacity, he has had large experience  
in building various kinds of Machinery  
especially in Machinery Tools & he  
is now head foreman in a Tool  
building Shop. I know he is a  
thorough Mechanic & a practical  
& I think he is fairly well up  
in ~~the~~ Steam matters which would  
be an advantage when you build  
your own Steam Engine.

I think he is now getting

Established 1855.

1884-01-20

The George Place Machinery Company,  
Railway and Machine Shop Equipment,  
121 Chambers & 103 Beade Streets,

P.O. Box 1119.

New York.

1888

about \$1000 per annum & also think  
he could be induced to loan his  
private place at some advance  
on that say \$2200 to \$2500.

I have known him for a long  
time & am positive that as soon as  
he became familiar with your work  
which would be in a week or so  
after getting him he would show very  
good results.

If you desire it I will  
arrange an interview <sup>with you</sup> at one days  
notice

Very  
oblige

Yours truly,  
H. M. Egan

I do not think it would be necessary to

make any time contract with  
him or that in case (which I do not  
think possible) you or he could not agree  
you would not be bound in any contract.

The party in question is not  
aware of my writing you this letter  
or in fact anything about you writing  
anybody.

Yours very truly &  
oblyg<sup>d</sup>

John H. L.

EDISON MACHINE WORKS,

104 Goerck Street,

New York,

1883-12-22

*Invoice*  
*per dynamo*  
 \$ 650  
 188

Shipped Dec 22/82

To Edison Indian & Colonial Co. Lim.

\*6 Lombard St.

London E. C.

Eng.

5 "1/2" Dynamos #311, 317, 324, 328 + 332 - 60 Extra brushes

Box #1	Contains Core Field & Keeper of 5 "324	weight	2120	lb.
" 2 "	Red Plate " " "	"	600	"
" 3 "	Armature " " "	"	325	"
" 4 "	Switchboard " " "	"	40	"
" 5 "	Core Field & Keeper #317	"	2120	"
" 6 "	Red plate " " "	"	600	"
" 7 "	Armature " " "	"	325	"
" 8 "	Switchboard " " "	"	40	"
" 9 "	Core Field & Keeper #332	"	2120	"
" 10 "	Red Plate " " "	"	600	"
" 11 "	Armature " " "	"	325	"
" 12 "	Switchboard " " "	"	40	"
" 13 "	Core Field & Keeper #328	"	2120	"
" 14 "	Red plate " " "	"	600	"
" 15 "	<del>Armature</del> " " "	"	325	"
" 16 "	Switchboard " " "	"	40	"
" 17 "	Core Field & Keeper #311	"	2120	"
" 18 "	Red plate " " "	"	600	"
" 19 "	Armature " " "	"	325	"
" 20 "	Switchboard " " "	"	40	"

Total Weight 15425 lb.

Dear Mr. Rolap

When will you have the  
new brushes ready for  
trial  
Edison

I am having a little trouble with the  
die for ~~putting~~<sup>the holes in</sup> the mica, but will  
probably have enough mica strips  
to make a couple of brushes to-morrow  
and am in the hopes of trying them then.

Enclose a few samples of the mica.  
I am putting the German-lilac commutator  
on the same armature, so I will try it  
with the new brushes.



~~Work on same~~

Every bit of finished work  
that is ready for assembly  
must come to Stock Room  
no work to be given  
assemblers from any dept  
except Stock Room —

All work up to the finishing  
point & which is ready to  
be sent to Stock Room must  
pass through the inspecting  
dept. —

All parts after inspection  
are to ~~be~~ <sup>ready for inspection</sup> be correlated &  
finished ~~by~~ for stock  
room ~~by~~ by general foreman.

Raw Stock Room must keep stock  
raw material ahead of work.  
(10) Keep up his <sup>Raw</sup> stock & make all  
drafts for raw stock good immediately.

THOMAS A. EDISON,  
No. 65 FIFTH AVENUE,

NEW YORK,

188

1883  
Edison machine works

nothing on everything up to \$100,000  
 3% between \$100,000 & \$150,000  
 4% " \$150,000 & \$200,000  
 5% " \$200,000 & \$250,000  
 6% everything above

# Edison Machine Works

Original Capital	164,111.03	
Balance Profit & Loss Dec. 31-	42,229.67	
<u>Total Cash Investment</u>	<u>206,340.70</u>	
Investment in plant, machinery, tools, stock		
supplies, labor and material	18,626.07	
Other Investments	10,168.66	
Balance %c. Receivable over %c. Payable	8,976.69	
	206,771.42	
Cash overdraft	430.72	206,340.70
<u>Sales 1883</u>	<u>176,800.00</u>	
Net Profits	12,236.00	
Cost of Experiments	18,450.00	
<u>Total Profits if Light Co had paid Experiments</u>		<u>30,686.00</u>

THOMAS A. EDISON,  
Central Station, Construction Dep't.,  
No. 65 FIFTH AVENUE,

Form H.

New York, \_\_\_\_\_ 188

Disc Dynamo -

Sketches from Matt's Daily Reports

- July 2/81 - Disc at work on disc commutator  
July 22/81 - commutator balance & discs placed  
in position -  
Mch 5/81. Bars, bands and discs joined  
& commutator discs nearly in position  
Mch 6/81 Logan ordered iron bar for  
large dynamo - with Logan letter of that date.  
" " " " new brushes for large dynamo -  
Mch 9/81 working on large dynamo (Logan  
letter)  
Mch 9/81 speaks of copper bars ordered -  
Mch 11/81 working on armature for large  
dynamo - (Logan letter)  
Mch 12/81 ditto, ditto, -  
Mch 22/81. Logan writes of the work  
finds certain discs for large dynamo  
could finish machine


Money for Machine Works

I proposed the Light Co loan  
 the Machine Works \$100,000 -  
 M.W. puts up \$200,000 stock  
 and gives the Light Co option  
 at end of year to take \$100,000  
 of it at par

Carter says ~~that~~ that the  
 following arrangement can  
 probably be made

Light Co sells \$25,000 of its  
 stock at \$225 provided buyer  
 will loan also \$50,000 for 1  
 year at 6%  
 Light Co loans M.W. \$100,000  
 + M.W. gives a security

(1883)



# Dynamo

Capacity 16 Ct.	Capacity actual	Capacity per min	Revolutions per min	Shaft Dia	Stroke	Stroke inches	Number of Poles	Speed R.P.M.	Dimensions Length Width Height
25	30	47	1460	5/4	3 1/2	110	23	175	
50	64	98	1600	6	5	109	48	250	
100	124	190	1550	7/4	6 1/4	111	93	400	4' 2 1/2" 4' 10"
200	240	367	1300	12	8	110	180	725	5' 6" 2' 6"
300	372	587	1120	12	10 1/2	112	278	1075	5' 6" 3' 3"
400	543	828	1060	14	12 1/2	110	406	1500	6' 6" 3' 6"

175

G or 25 light dynamo (3 Boxes)

	lbs	Tare	nett
1 Box containing Cores keepers & fields	850 lbs	107 lbs	743 lbs
1 " " " Bed plate ect	335 "	80 "	255 "
1 " " " armature	102 "	27 "	75 "
Totals	<u>1287</u>	<u>214</u>	<u>1073</u>

R or 50 light dynamo (3 Boxes)

	lbs	Tare	nett
1 Box containing Cores keepers & fields	927 lbs	107 lbs	820 lbs
1 " " " Bed plate ect	372 "	80 "	292 "
1 " " " Armature	102 "	27 "	75 "
Totals	<u>1401</u>	<u>214</u>	<u>1187</u>

H or 400 light dynamo (8 Boxes - 9 carts)

	lbs	Tare	nett
6 Boxes containing Cores	2214 lbs	360 lbs	1854 lbs
1 " " " Sundries	125 "	100 "	25 "
1 " " " Armature	1105 "	315 "	790 "
3 keepers (unboard)	1077 "		1077 "
1 Bed plate & Liner ect ( " )	2905 "		2905 "
2 Pillow Blocks & ( " )	192 "		192 "
3 Rails	156 "		156 "
Totals	<u>7774</u>	<u>775</u>	<u>6999</u>

over

W (100 light) dynamo (2 Boxes, 1 cast)

	gross	Tare	net
2 Boxes containing core & copper	540 lbs	134 lbs	406 lbs
1 " " Sundries	285 "	80 "	205 "
1 " " armature	265 "	46 "	219 "
1 Red Plate Field (unbrd)	<u>815 "</u>		<u>815 "</u>
Totals -	<u>1905 "</u>	<u>260 "</u>	<u>1645 "</u>



**1883. Electric Light - Electric Tube Company (D-83-035)**

This folder contains correspondence and other documents relating to the business of the Electric Tube Company in New York City, which manufactured underground conductors for the Edison electric light system. Much of the correspondence is by John Kruesi, treasurer of the company.

Approximately 60 percent of the documents have been filmed. The following categories of documents have not been filmed: accounts; orders; bills and receipts; duplicate copies of selected documents.

# The Electric Tube Company.

Dr.

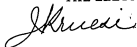
Cr.

Bills Receivable	1	6	4	5	4	6	7	Bills Payable	1	3	1	3	6	7	7
Cash		6	1	1	0	3	2	Capital	2	5	0	0	0	0	0
Tools & Appliances	7	6	9	1	5	5		Profit Gain	2	4	7	0	3	7	7
Furniture & Fixtures		4	0	0	0	0									
Stock (taken at cost price)	3	2	1	5	3	3	4								
\$	6	2	5	4	0	2	1	\$	6	2	5	4	0	2	1

New York January 2<sup>nd</sup> 1883.

I do allow 45% on Tools & Appliances  
 The Bills Receivable are from: Thomas A. Edison  
 The Edison Electric Illuminating Co  
 The Edison Electric Light Co.  
 The Edison Company for Isolated Lighting  
 The Edison Lamp Co  
 The Edison Machine Works  
 The Western Edison Co  
 The Electrical Supply Co.  
 Post & Company  
 J. Wood  
 Bugmann & Co  
 Burr & Houston

THE ELECTRIC TUBE CO.



TREASURER.

22 1883-01-12

The Electric Tube Company,

65 Washington St.

T. A. EDISON Pres.  
JOHN KRUESI Treas.  
SAMUEL INSULL, Secy.

New York, January 12, 1883

Thomas A. Edison Esq.  
65 Fifth Avenue City  
New York

The three plates & dies the  
party from Providence made  
did not work at all & new ones  
must be made & it will probably  
be possible to try again towards the  
middle of next week. I will try them  
with 10 to wire, so that if it works  
we can at once sufficiently the  
E. L. Johnson for the Wright's patent.

Yours truly,  
THE ELECTRIC TUBE CO  
John Kruesi TREASURER.  
Insull

34 1883-01-16

The Electric Tube Company,

65 Washington St.

T. A. EDISON Pres.  
JOHN KRUESI Treas.  
SAMUEL INSULL, Secy.

New York, Jan. 16<sup>th</sup> 1883

My Dear Insull  
The Electric Tube Co  
is hard up please send  
a check as soon as  
possible. I oblige  
Yours truly  
J. Kruesi  
Treas.

22 1883-02-06

*Edison*  
T. A. EDISON Pres.  
JOHN KRUESER, Treas.  
SAMUEL HICKS, Secy.

The Electric Tube Company,  
65 Washington St.  
New York, *July 6th* 1883.

*Mr* Edison  
65 Fifth Avenue  
City

Dear Sir,

Our landlord, put up  
the rent \$100 last yr. & for  
the coming year he wants  
to put it up \$100 again. What  
are they, suspects for the 3rd  
district or any other. But we  
have to agree to the increase  
unless you, yes, or no, but  
soon.

*Yours truly*  
John Krueser

*22*  
The Electric Tube Company  
65 Washington St.  
New York, *Schmied 10/11* 1883.

T. A. EDISON Pres.  
JOHN KRUESER, Treas.  
SAMUEL HICKS, Secy.

*Samuel D. Merrill Esq*  
65 1/2th Avenue City  
New York

Please let Mr Edison  
sign the enclosed lease & return  
as soon as possible.

*Yours truly,*  
THE ELECTRIC TUBE CO.

*John Krueser* TREASURER.  
*Samuel*

34/883-0212

*Answer to Mr. Russell*  
EDISON  
JOHN KRUESI, Pres.  
SAMUEL INSALL, Secy.

The Electric Tube Company,  
65 Washington St.

New York, February 15<sup>th</sup> 1883

*Samuel Russell Esq*  
65 5th Avenue City  
New York

We are in great need  
of funds. Please send us a  
check, as large a one as possible.  
Please let me know whether the  
insurance & everything pertaining  
to the General Electric was  
sales factory & oblige  
Yours truly

THE ELECTRIC TUBE CO.  
John Kruesi - TREASURER.

1883

34  
1883-02-15

The Electric Tube Company,  
65 Washington St.

T. A. EDISON Pres.  
JOHN KRUESI, Pres.  
SAMUEL INSALL, Secy.

New York, Feb 15<sup>th</sup> 1883

*Samuel Russell Esq*  
65 5th Avenue City  
New York

Enclosed please  
find 2 checks, one for American  
Press & Copier Co & one blank.  
Please get the Edison's counts -  
sign them.

Please let me know by return  
mail, when I can see Edison -  
I have something very important  
to discuss about the E.T.C.  
with respect

Yours truly  
John Kruesi

29 1883-03-02.

The Electric Tube Company,  
65 Washington St.

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INSLALL, Secy.

New York, March 2<sup>nd</sup> 1883

Samuel Insull Esq.  
65 Fifth Ave.

Dear Sir, Sily.

Your favor of the 1<sup>st</sup> received, and contents noted. In reply would say, we will, in future, do as you requested, that is to mark in Butcher's goods, C. B. 1, 2, etc., and also in bill, will give you contents of each case.

Yours Truly  
J. P.

3/27/83  
 Money a. Edison Co.  
 New York  
 26. Trust - at hand. You  
 Foreign Order # 154 - bill issued  
 out promptly attention  
 Yours truly  
 JOHN KRUESI  
 THE ELECTRIC TUBE CO.

33 1883-03-02

The Electric Tube Company,  
 65 Washington St.

T. A. EDISON, Pres.  
 JOHN KRUESI, Treas.  
 SAMUEL INSULL, Secy.

New York, 27th 1883

Samuel Insull Esq  
 65 Fifth Avenue N. Y. City  
 New York

We have ordered all the  
 material for the last Wilson  
 order (# 154) & will get it ready  
 for shipment as soon as  
 possible. But we wish to be  
 sure that we can get the  
 money as soon as we  
 can show bills of lading  
 insurance &c

Yours truly  
 John Kruesi

Please let us here from  
 you within a few days  
 H.

11/11/93

Dear Sir

Your foreign order  
#156 has been received & we  
shall give it same our prompt  
attention

Yours truly  
THE ELECTROTYPE CO.  
H. H. H.



32/883-04-14

The Electric Tube Company,

65 Washington St.

New York, 11/15/18 1888

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INSULL, Sec'y.

S. Insull  
#2

The Electric Tube Company,

65 Washington St.

New York, ..... 188

(1893)

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INSULL, Sec'y.

Samuel Insull Esq,  
65 Fifth Avenue N. Y. City  
Dear Sir,

We quote for line of electric tubes for 250 W lamps, 1000 feet with 13% loss as follows:

#3 tubes 1000 feet	960.00
52 boxes with lamps complete	127.40
52 pair of joints	41.60
360 lbs compound	36.00
	<u>\$ 1155.00</u>

#4 tubes with a loss of 17%	
#4 tubes 1000 ft	700.00
52 boxes with lamps complete	127.40
52 pair of joints	41.60
360 lbs compound	36.00
	<u>\$ 895.00</u>

Net F.O.B

Please let Mr Edison choose the percentage lost.

Yours truly

THE ELECTRIC TUBE CO.  
John Kruesi TREASURER  
Jc.

Form No. 1

1883-04-16

# CABLE MESSAGE

## THE WESTERN UNION TELEGRAPH COMPANY.

All CABLE MESSAGES received for transmission must be written on the Message Blanks provided by this Company for that purpose, and subject to the conditions printed thereon, and on the back hereof, which conditions have been agreed to by the sender of the following message.

THOS. T. ECKERT, General Manager. MORVIN GREEN, President.

NUMBER	SENT BY	RECEIVED BY	OTHER
275	HWA	9	208

Received at 791 BROADWAY

Apr 10 1883

Dated Milan

To

Edison Tube Company NY  
65 Fifth Ave

Cable if Tubes shipped

Brooklyn  
Calambr.

34 1883-04-17

The Electric Tube Company,  
65 Washington St.

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INSULL, Secy.

New York, 4/17/83 1883.

Samuel Insull Esq,  
65 Fifth Avenue City.  
Dear Sir,

In answer to yours  
of the 11th inst, in regard to difference  
in case 67 of the Italian or U.S.

Say we find we made the error  
complained by the Italian Co.  
& herewith send you a check  
memorandum for the difference.

The error was made by concluding  
that the 3" outside diam tubes  
in this case were old style  
# 1 1/2 when they were new  
style number two & should  
have been charged at \$2.57 per  
foot, instead of \$3.25/100.

Yours truly  
Promit

THE ELECTRIC TUBE CO.

New York, *April 20* 1883

## The Electric Tube Co.,

65 Washington Street.

Order No. *1223-04-70*For *Price List*

PIECES.	1		2		3		4		5		6		7		REMARKS.	
	Street.	House.	Street.	House.	Street.	House.	Street.	House.	Street.	House.	Street.	House.	Street.	House.		
<b>BOXES.</b>																
Coupling	3.15	3.15	2.90	2.80	2.80	2.30	2.30	..	..	..	..	..	..	..		
Elbow	3.22	3.22	2.97	2.80	2.80	1.12	2.46	.97	2.46	.97	.62	.62	.60			
Teo	4.10	4.10	..	..	..	2.65	1.10	2.65	1.10	1.10	1.10	1.10	1.00			
Service	..	..	..	..	4.00	2.53	..	2.53	..	..	..	..	..			
Wire Branch	..	..	..	..	..	1.41	1.01	..	1.01	..	..	..	..			
Cross	..	..	..	..	..	..	1.30	..	1.30	1.45	1.45	1.45	1.45			
House Coupling	..	..	..	..	..	..	.95	..	.95	..	.62	.62	.53			
45° Elbows	4.20	4.20	4.00	3.70	3.70	2.80	1.26	2.80	..	..	..	..	..	..	.90	
<b>JOINTS.</b>																
Expansion Coupling	4.55	3.22	2.24	1.85	1.50	..	1.00	..	.90	..	..	..	..			
Straight	1.65	1.45	1.30	1.10	..	1.00	..	.80	..	.50	.46	.40	.28			
Rt. Hd. Reverse Coupling	..	..	..	..	..	.95	..	.65	..	.56	.48	.42	.32			
Lft. Hd. "	..	..	..	..	..	.95	..	.65	..	.56	.48	.42	.32			
Upright Elbow	4.25	3.65	2.93	2.04	1.94	1.10	1.38	.65	.96	.53	.42	.39	.28			
Flat	4.30	3.95	2.50	2.00	1.95	.98	1.18	.60	.85	.53	.45	.40	.28			
Reverse	..	..	..	..	2.05	1.10	1.36	.90	1.05	.66	.55	.52	.50			
Service	..	..	..	..	1.87	..	1.20	..	1.05	..	..	..	..			
Teo	..	..	..	..	..	1.55	..	1.16	..	.90	.85	..	..			
" (Branch No. 3)	..	..	..	..	..	1.55	..	1.16	..	.90	.85	..	..			
" ( " 4)	..	..	..	..	..	1.55	..	1.16	..	.90	.85	..	..			
" ( " 5)	..	..	..	..	..	1.55	..	1.16	..	.90	.85	..	..			
" ( " 6)	..	..	..	..	..	1.55	..	1.16	..	.90	.85	..	..			
" ( " 7)	..	..	..	..	..	1.55	..	1.16	..	.90	.85	..	..			
Wire Branch	..	..	..	..	..	..	.80	..	.95	.59	.53	.50	..			
Wire Socket	..	..	..	..	..	..	.44	..	.44	.34	.35	.33	..			
Wire Clamp	1.45	1.24	1.05	..	..	.96	..	.95	..	.65	.56	.50	.46			
45° Up Elbow	3.40	2.65	2.15	1.95	..	1.45	..	..	..	..	..	..	..			
45° Flat	3.40	2.95	2.10	1.90	..	1.45	..	..	..	..	..	..	..			
Junction Box Elbow	..	..	1.40	..	..	..	..	..	..	..	..	..	..			
<b>CLAMPS.</b>																
Ball Clamps	.65	.65	.55	.50	.55	..	.44	..	.44	..	.40	.40	.40			
Base Clamps	..	..	..	.55	.55	.55	.55	.55	.55	.55	.50	.50	.50			
<b>MISCELL.</b>																
Pink Hole Covers	..	..	..	..	..	..	..	..	..	..	..	..	..			
Caps	..	1.25	1.15	.95	.89	.89	.94	.94	.38	.35	.21	.21	.18			
House Box Rings	..	..	..	..	..	..	..	..	..	..	..	..	..			
<b>TUBES.</b>																
Tubes	4.43	3.55	2.54	2.00	1.54	..	1.00	..	.90	..	.48	.34	.25			
Copper per foot	3.22	2.56	1.69	1.33	.94	..	.51	..	.35	..	.21	.13	.04			
Wooden Plugs	.032	.032	.03	.03	.03	..	.03	..	.02	..	.02	.02	.02			
Old style Tubes	4.10	3.25	2.35	1.85	1.45	..	.85	..	..	..	..	..	..			
Red figures for old style tubes																
<b>TAPE.</b>																
12 inch	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#
14 "	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#
1 "	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#
2 "	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#
3 "	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#	40#
3 1/2 "	60#	60#	60#	60#	60#	60#	60#	60#	60#	60#	60#	60#	60#	60#	60#	60#
Compound 10# lbs.																
Bridge Boxes Bridge and Junction Box Fittings, see List.																
Feeder Junction Boxes Millboards, see List. Tools, see List.																

1883-04-30

The Electric Tube Company,  
65 Washington St.

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INSULL, Secy.

New York, April 30th 1883.

Mr Thomas A. Edison  
65 Fifth Avenue New York City.  
Dear Sir,

The two first divisions are underground  
plants like the one at the Grand St. Station, and  
the 3 conductor systems for \$ 819,330 pro  
viz: -  
69,500 feet of main line }  
21,500 " " feeders } \$ 49,308.95  
300 " " stub services }  
42 Junction boxes }  
Digging & paving at 12¢ per ft. 6621.00  
\$ 81033.00

Grand Street Station plant cost without digging  
& paving \$ 150,000 pro, taking digging & paving  
at the same as above 9621.00  
\$ 189621.00 pro total cost.

Yours truly,

THE ELECTRIC TUBE CO.  
*John Kruesi* TREASURER.

35 1883-05-16

The Electric Tube Company.

65 Washington St.

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INGRAM, Secy.

New York, *May 16<sup>th</sup>* 1883.

*Samuel Insull Esq  
65 Fifth Avenue City.  
New York.*

*As you will find, price list  
of tubes, boxes 10. As we have  
never made any tubes of the 3  
wire system we can not at  
present give you a price on them.  
Yours truly*

THE ELECTRIC TUBE CO.

*Samuel*

1883-05-25

RECEIVED  
The Electric Tube Company MAY 23 1883  
ANSWERED

65 Washington St.

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INGRAM, Secy.

New York, *May 16<sup>th</sup>* 1883.

*Thomas A. Edison Esq  
65 Fifth Avenue City  
New York.*

*As the estimate for  
Charleston S. C. and the  
Langton did not know at the  
time if it was feared.*

*I learned from Mr. Jones to-day  
that it had just been feared  
with elaborate argument,  
this will consequently increase  
the "Duv. Excitation" \$630<sup>00</sup>  
making it \$1350<sup>00</sup>.*

*In the estimate sent May 21<sup>st</sup>  
the freight is not included  
this would have to be paid in  
Charleston we allowing f.o.b.  
New York  
Yours truly* THE ELECTRIC TUBE CO.  
*John Kruesi*

1883-05-26

RECEIVED  
MAY 23 1883  
The Electric Tube Company.

Washington St.

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INGRAM, Secy.

MAY 23 1883

NEW YORK, N.Y. May 26<sup>th</sup> 1883

Norman A. Edison Esq,  
65 Fifth Avenue City  
New York.  
We herewith notify you  
that on all contracts not  
signed up to date: the sign  
with the understanding that  
we only deliver on special  
F. O. B. New York City. The  
local company paying  
the freight + cartage from  
freight-depot to place of  
storage on arrival at the  
destination.

Yours truly  
THE ELECTRIC TUBE CO.  
John Kruesi TREASURER.  
Jh.

1883-05-26

The Electric Tube Company.

RECEIVED

MAY 23 1883

Washington St.

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INGRAM, Secy.

ANSWERED

MAY 26 1883

NEW YORK, N.Y. May 26<sup>th</sup> 1883

FILE No. ....

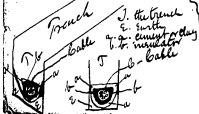
Samuel Ingrams Esq,  
65 Fifth Avenue City  
Dear Sir,  
One thing I over looked  
in Mr. Edwards letter from Providence  
that is that our f. o. b. exclude  
the freight. We only delivering  
f. o. b. New York; freight as well  
as cartage from freight-depot  
to the place of storage is  
not to be paid by us.  
Yours truly  
THE ELECTRIC TUBE CO.  
John Kruesi TREASURER.  
Jh.

1883-05-28

2

At the bottom of a trench, dug in the street, place clay or sand & water cement fashioned by the trowel like a continuous trough of 2 or more inches in diameter. In this trough, when the cement is set or dry, place the tied bundles of wires (or cable) and over these wires, lying at the bottom of the clay or cement trough, pour melted rosin, tar, pitch, asphaltum, paraffine, lead or other insulator. When this insulating material has permeated or saturated the bundle of wires filled the trough, and become cold or hardened, cover the trough & contained wires with a cap or a layer of clay or cement and when hardened cover the whole with earth and fill the trench. In order to render insulation perfect the tied bundles of wires may be soaked in or run through a vat of insulating material before placing in the trough and then covered with more melted material to fill all the interstices. A trough of wood <sup>or metal</sup> V shaped with a cap of wood stone or metal may be used instead of the cheap cement. Two bricks set V shape with a third brick as a cap or four bricks placed lengthwise edge to edge and jointed with cement before coating with insulating material. Openings can be left at intervals & marked for the insertion of lateral wires and connections.

Pardon the poor diagram



Yours truly

M. C. Spaulding



1883-06-08

The Electric Tube Company.

65 Washington St.

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INGALL, Secy.

New York, June 8<sup>th</sup> 1883

Order No. 108 B.

Please furnish this company with as soon as possible

276 rods of electric copper, 3" in diameter  
(two hundred and thirty six rods)

216 rods of electric copper, 2.59" in diam.  
(two hundred and sixteen rods)

1200 rods of electric copper, 2.38" in diam.  
(two hundred and thirty eight thousand rods)

600 rods of electric copper, 2.13" in diam.  
(two hundred and thirty thousand rods)

All of these rods must be  
in straight lengths of 20' 4"  
(twenty feet four inches) each  
to be shipped in cases & delivered  
free at 65 Washington St.

Give Date and Number of Order on Invoice.

John Kruesi Treas.  
per \_\_\_\_\_

To Thomas A. Edison,

1883-06-13

The Electric Tube Company.

65 Washington St.

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INGALL, Secy.

New York, June 13<sup>th</sup> 1883.

OK  
Thomas A. Edison Esq  
65 Fifth Avenue City  
New York

Will you please send  
word to Frank Sherard to  
come on as soon as possible.  
I will make salary satisfactory  
to him but must have  
him soon.

Truly yours  
John Kruesi  
J.K.

T. A. EDISON, Pres.  
JOHN ARQUEST, Secy.  
"MAGNET" "MNS"

June 15th. 1883

John Kusasi, Esq. Treasurer,

Edison Tube Co.

65 Washington Street, City.

Dear Sir:-

Can you give me any idea as to when the Brockton tubes will be ready to lay. The work, in connection with our station there, is going along rapidly and will, I think, be finished inside of 15 or 20 days. I think you should do all you possibly can to hurry up the Ansonia people with their copper. They write me under yesterday's date that they do not know exactly when they will have it ready for you.

Very truly yours,

1882-06-18

the Electric Tube Company.

65 Washington St.

New York. *June 17th* 1882.

*Samuel Ingersoll Esq*  
*65 Fifth Avenue City*

*Dear Sir,*  
*I will as already*  
*stated do my very best*  
*to finish the Trenchon*  
*job.*

*Your favor in regard to the*  
*tax notice has been received*  
*but the notice was not en-*  
*closed. Please send it to*  
*me at your earliest convenience*

*Yours truly*  
*John Kruiser*  
*Jk*

1883-06-16

The Electric Tube Company.

65 Washington St.

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INSULL, Secy.

New York, June 16<sup>th</sup> 1883

Samuel Insull Esq  
65 Fifth Avenue City  
New York

In reply to your favor of the 15th inst. - I will do all I can to hurry the order out. I will notify the people who supply raw material all I can.

As to the time when we will have the goods completed, I can give you no answer until I hear from the parties who supply the material

Truly yours

John Kruesi  
John Kruesi

1883-06-18

The Electric Tube Company.

65 Washington St.

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INSULL, Secy.

New York, June 18<sup>th</sup> 1883

Samuel Insull Esq  
65 Fifth Avenue City  
New York

Dear Sir,

Please send me the box notices & I will go over it & see to it.

Yours truly  
John Kruesi  
J.K.

We recd no check on Saturday & are consequently all out of funds, please send the promised check down as early as possible.  
J.K.

1883 - 46-19

June 19th 1

8

John Kelesi, Esq.

Washington Street, City.

Dear Sir:-

I am in receipt of your favor of yesterday's date, and will attend to getting you money from the Illuminating Co. tomorrow. I am going to Philadelphia this morning, and have not the time to look into it.

Very truly yours,

1883-06-18

The Electric Tube Company,

65 Washington St.

New York, June 18<sup>th</sup> 1883.

WILSON Pres.  
KROES, Treas.  
AUG. HASKELL Secy.

Samuel Insull Esq  
65 Fifth Avenue City  
New York

The American Brass &  
Copper Company are asking  
for a check of \$3300<sup>00</sup> which  
we owe them for copper wiring  
some months ago for the  
Illuminating Co.  
The Edison Electric Ill. Co now  
owes us \$14525<sup>00</sup>. Will  
you please see that they remit  
at least enough to give  
us a check to pay the American.  
I do not like to trouble you  
but as you have undertaken  
to do this work I am obliged to  
your truly  
John Insull

June 20th, 1883 3

John Cruick, Esq.

85 Washington Street, City.

Dear Sir:-

I have not yet heard from Mr. Clarke in relation to Lawrence. I wrote him about the matter on Saturday and am expecting daily to receive from him a signed contract. When it arrives I will advise you.

Very truly yours,

1883-06-20

The Electric Tube Company.

65 Washington St.

New York, June 20<sup>th</sup> 1883

T. A. EDISON Pres.  
JOHN KRUESI, Treas.  
SAMUEL INGALL, Sec'y.

Samuel Insull Esq  
65 Fifth Avenue City  
Dear Sir, Has the contract  
for Lawrence Mass been  
signed. Is it all right  
to order the material.  
Yours truly  
John Kruesi



The Electric Tube Company.

65 Washington St.

T. A. EDISON, Pres.  
JOHN KILGUSI, Treas.  
SAMUEL INSULL, Sec'y.

New York

June 20<sup>th</sup> 1888.

Samuel Sprague Esq  
65 Fifth Avenue City  
Dear Sir,

It would be  
wasting time to estimate  
on the last determination  
you sent me of horizontal duty.  
Enclosed piece of wire is the  
size of one of the filaments  
which is 26 $\frac{1}{4}$  feet long, &  
the largest filament out of  
five is only equal to 4 of  
these smaller wires (will revert)  
Mr Sprague is making a  
determination now, which when  
finished, will give us conclusive  
basis to work upon, as to  
the carrying capacity of the conduc-  
tor. Truly yours, John Kilgusi  
Sec'y

1883-06-22

## The Electric Tube Company,

65 Washington St.

T. A. EDISON, Pres.  
JOHN KRUESE, Treas.  
SAMUEL INSALL, Secy.New York, June 22<sup>nd</sup> 1883Order No. 116 B.

Please furnish this company with, as soon as possible  
the following, straight rods of  
aluminum alloy.

210 rods	.425 diam.	20 ft	4 inches long
255 "	.410 "	25 "	4 " "
180 "	.385 "	20 "	4 " "
132 "	.384 "	20 "	4 " "
1170 "	.220 "	20 "	4 " "
405 "	.203 "	20 "	4 " "

The rods to be marked as explained  
to the Ansonia people for the  
previous order.

To Thomas A. Edison Esq.,  
65 Fifth Avenue City

Give Date and Number of Order on Invoice.

John Kruese Treas.

per

John Kruese

1883-06-27

## The Electric Tube Company,

65 Washington St.

T. A. EDISON, Pres.  
JOHN KRUESE, Treas.  
SAMUEL INSALL, Secy.New York, June 27<sup>th</sup> 1883Order No. 120 B.

Please furnish this company with

Please cancel our order #116 B for  
aluminum rods & send to state the new order  
216<sup>7</sup>/<sub>8</sub> rods .410 mid diam  
300 " .425 " "  
504 " .340 " "  
1008 " .220 " "  
each rod to be 20 ft 4 inches long  
to be delivered in straight rods &  
marked as explained to the  
Ansonia Brass Works for  
previous order

To Thos A. Edison  
65 Fifth Avenue City

Give Date and Number of Order on Invoice.

John Kruese Treas.

per

John Kruese

Order 120 B  
June 27/83

1883-07-05

The Electric Tube Company,  
65 Washington St.

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INSULL, Mgr.

New York, July 5th 1883

*File*  
*Account of stock on hand.*

3 # 1 1/2 (3 1/2) 20% ft	= 61 1/2	1 # 3 (2) 19 1/2	= 19 1/2
13 # 2 (3) , ,	= 26	1 # 3 (1) 19 1/8	= 19 1/8
3 # 2 (3 1/2) , ,	= 61 1/2	1 # 3 (1) 19 1/4	= 19 1/4
2 # 2 1/2 (3 1/2) , ,	= 41	1 # 3 (1) 19 1/8	= 19 1/8
3 # 2 1/2 (2 1/2) , ,	= 61 1/2	1 # 3 (1) 19 1/3	= 19 1/3
11 # 2 3/4 (2 1/2) , ,	= 22 5/8	1 # 3 (1) 19 1/4	= 19 1/4
29 # 2 3/4 (2 1/2) , ,	= 59 1/4	1 # 3 (1) 19 1/4	= 19 1/4
5 # 3 (2 1/4) 20% ft	= 101 1/4	1 # 3 (1) 18 1/4	= 18 1/4
6 # 4 20% ft	= 122 1/4	2 # 3 (1) 18 1/4	= 37 1/2
28 # 4 15	= 420	1 # 3 (1) 18 1/8	= 18 1/8
15 # 5 20% ft	= 305 1/2	1 # 3 (1) 18 1/4	= 18 1/4
36 # 5 15	= 540	1 # 3 (1) 18 1/4	= 18 1/4
65 # 6 20% ft	= 1324 1/2	1 # 3 (1) 18 1/6	= 18 1/6
30 # 6 18 1/2	= 925	1 # 3 (1) 18 1/4	= 18 1/4
70 # 6 15	= 1050	1 # 3 (1) 18 1/4	= 18 1/4
72 # 7 20% ft	= 1467	1 # 3 (1) 17 1/2	= 17 1/2
47 # 7 15	= 705	1 # 3 (1) 17 1/2	= 17 1/2
<i>all 2" tubes</i>		1 # 3 (1) 16 1/4	= 16 1/4
1 # 3 20% ft	= 20% ft	2 # 3 (1) 16 1/2	= 32 1/2
1 # 3 19 1/4	= 19 1/4	1 # 3 (1) 15 5/6	= 15 5/6
1 # 3 19 1/2	= 19 1/2	1 # 3 (1) 12 3/4	= 12 3/4
1 # 3 19 1/2	= 19 1/2	1 # 3 (1) 15 1/2	= 15 1/2
3 # 3 19 1/4	= 58 1/4	2 # 3 (2) 15 1/4	= 30 3/4
2 # 3 19 1/8	= 38 1/4	1 # 3 (2) 15 1/3	= 15 1/3
	(175 3/4)		47 3/4

1883-07-05

Sketch  
#2T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INSULL, Sec'y.The Electric Tube Company,  
65 Washington St.

New York, \_\_\_\_\_ 188

1 #3 (2')	14 $\frac{1}{2}$ " ft	1 #3 (2')	11 $\frac{1}{3}$ " ft
1 #3 "	14 $\frac{1}{4}$ " "	1 #3 "	11 $\frac{1}{8}$ " "
1 #3 "	14 $\frac{1}{4}$ " "	1 #3 "	12 $\frac{1}{3}$ " "
1 #3 "	14 $\frac{1}{3}$ " "	1 #3 "	10 $\frac{1}{2}$ " "
1 #3 "	14 $\frac{1}{4}$ " "	1 #3 "	10 $\frac{1}{12}$ " "
1 #3 "	14 $\frac{1}{2}$ " "	1 #3 "	12 $\frac{1}{2}$ " "
1 #3 "	14 "	1 #3 "	10 $\frac{3}{8}$ " "
1 #3 "	13 $\frac{5}{6}$ " "	1 #3 "	12 $\frac{2}{8}$ " "
1 #3 "	13 $\frac{1}{2}$ " "	1 #3 "	12 $\frac{1}{2}$ " "
1 #3 "	13 $\frac{1}{2}$ " "	1 #3 "	10 $\frac{1}{8}$ " "
1 #3 "	13 $\frac{1}{2}$ " "	1 #3 "	11 $\frac{1}{8}$ " "
1 #3 "	11 $\frac{1}{2}$ " "	1 #3 "	11 $\frac{1}{3}$ " "
1 #3 "	11 $\frac{1}{6}$ " "	1 #3 "	12 $\frac{1}{3}$ " "
1 #3 "	11 $\frac{3}{8}$ " "	1 #3 "	11 $\frac{1}{2}$ " "
	<u>188 <math>\frac{1}{2}</math></u>		<u>159 <math>\frac{1}{8}</math></u>

Total 188  $\frac{1}{2}$   
 159  $\frac{1}{8}$   
 175 -  $\frac{23}{8}$ "  
 473  $\frac{43}{8}$ "  


---

 996  $\frac{23}{8}$ " fuch.

## The Electric Tube Company.

1883-07-05

65 Fifth Avenue.

T. A. EDISON, Pres.  
JOHN KRUES, Treas.  
SAMUEL WISSELL, Secy.New York, July 5<sup>th</sup> 1883Price List of Electric Tubes  
(3 conductor system) F. O. B. including packing

Nominal Size	Circular Mills	Diameter of copper	Price per Ft. Plain increasing with length	Price per Ft. with Galvanum wire incl. brass joints	Av Weight Per ft	Laying
500	500.000	.707	\$2.15	\$2.18	10.9 lbs	64
450	450.000	.671	2.01	2.04	10.4 "	64
400	400.000	.633	1.85	1.88	10. "	64
350	350.000	.592	1.68	1.71	9.6 "	64
300	300.000	.548	1.53	1.56	9.2 "	64
250	250.000	.500	1.26	1.29	7.2 "	64
206	206.116	.454	1.12	1.15	6.9 "	64
180	180.625	.425	1.04	1.07	6.7 "	64
167	167.805	.410	1.01	1.04	6.6 "	64
144	144.400	.380	.86	.89	5.3 "	64
133	133.079	.365	.83	.86	5.2 "	64
115	115.600	.340	.77	.80	5.1 "	64
105	105.534	.325	.71	.74	5.1 "	64
90	90.000	.300	.68	.71	4.9 "	64
80	80.656	.284	.64	.67	4.8 "	64
67	67.081	.259	.61	.64	4.7 "	64
56	56.644	.238	.53	.56	3.8 "	64
48	48.400	.220	.49	.52	3.7 "	64
41	41.209	.203	.47	.50	3.6 "	64
32	32.400	.180	.40	.43	2.9 "	64
27	27.225	.165	.38	.41	2.9 "	64
		The Electric Tube Co		& Successors		

1883-07-18

The Electric Tube Company,  
65 Washington St.

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INGLIS, Secy.

New York, July 18<sup>th</sup> 1883.

Thomas A. Edison Esq  
65 Fifth Avenue City  
New York

We will deliver 570 yds (1500) of  
electric tubing including boxes, joints, workhouse  
to carry 200 six tube candle light as  
follows: -

Cost of all tubing joints boxes & compounds	
at 15% loss	\$ 2950 00
at 15% " " "	\$ 1992 00

The above is f.o.b. New York.

Yours truly

THE ELECTRIC TUBE CO

John Kruesi  
President

334500

1883-07-23

The Electric Tube Company,

65 Washington St.

T. A. EDISON Pres.  
JOHN KRUESI, Treas.  
SAMUEL HOSKIN, Secy.

New York, *July 23<sup>rd</sup>* 1883

*Thomas A. Edison Esq  
65 Fifth Avenue City  
New York*

*We are in receipt of  
your foreign order # 164. Have  
already ordered materials for  
same & shall complete it  
with out delay.*

*Yours truly*

THE E. T. CO. *[Signature]*

1883-07-27.

The Electric Tube Company,  
65 Washington St.

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INSULL, Secy.

New York, July 27<sup>th</sup> 1883

Thos. A. Edison Esq  
65 Fifth Avenue City  
New York,

Below find prices of our  
commercial sizes of 3 conductor tubes  
all complete wired; (Nunpans stand)

Wire Gauge	Insulation mids.	Chicago main	Price per 1000 ft	4 Wires per ft.	Remarks.
0000B	206116	1.17	1.20	6.9	These prices are for ordinary soft ground, belgian block framment, 8 ft per foot additional. Nickel iron framment 15¢. Cobble stone framment 6¢. No damaged 6¢
000	180625	1.09	1.12	6.7	
000A	167805	1.06	1.09	6.6	
00B	144440	.92	.95	5.3	
00A	133074	.89	.92	5.2	
0B	115600	.83	.86	5.1	
0A	105534	.78	.81	5.1	
1B	90000	.75	.78	4.9	
2	80656	.71	.74	4.8	
3	67081	.68	.71	4.7	
4	56644	.60	.63	3.8	
5	48400	.57	.60	3.7	
6	41209	.53	.58	3.6	
7	32400	.48	.51	2.9	
8	27325	.46	.49	2.9	
Price for a ten tube junction safety catch box		\$125	99/100	- 6	tube J.S.C. box \$90 00/100

Yours truly,  
John Kruesi  
THE ELECTRIC TUBE CO.  
TREASURER



4

D  
1883  
El. Lt.

The Electric Tube Company.

65 Washington St.

T. A. EDISON Pres.  
JOHN KRUESI, Treas.  
SAMUEL INSULL, Secy.

New York, July 27<sup>th</sup> 1883.

Samuel Insull Esq  
65 Fifth Avenue City  
Dear Sir.

Will you kindly  
send us full directions for  
shipping to Rockton Mass  
Also if we can ship there  
at once or if we will  
have to wait until every-  
thing is completed. If  
there is nobody at Rockton  
to receive freight the  
letter would first be  
followed. Can we get  
hot air room in the  
central station?  
Yours truly

THE ELECTRIC TUBE CO.

THOMAS A. EDISON,  
No. 65 FIFTH AVENUE.

1883-08-01

NEW YORK, Aug. 1<sup>st</sup> 1883

9. P. M.

Mr Edison

I made an estimate roughly and find the cost of the underground conductors as per map would come to \$ 3.15 per 10 Candles lamps without taking in the Paving.

Total cost \$ 29900<sup>00</sup>

As this figures are as low as I can find them.

I did not think it worth while to spend the time & money. If you think different let me know

Truly yours

J. Kruesi

The Electric Tube Company.

65 Washington St.

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL HOSKEL, Secy.

New York, Aug 1<sup>st</sup> 1883

Thos. A. Edison

Central Sta. Con. Dept.

Dear Sir:

The 325° copper referred to in your favor of this date is all right. We have at your suggestion advised the American B.T.C. Co. to change the order from 425° to 325° the latter being found amply large enough to carry the current, and lessening our loss on Lawrence's orders to some extent.

Respectfully,

John Kruesi

P.S. We have not had an opportunity to open cases, but will do so, and ascertain whether they are in accordance with invoice.

1873 - 08 - 15

1873-08-06

The Electric Tube Company.

65 Washington St.

The Electric Tube Company.

65 Washington St.

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INSULL, Sec'y.

New York Aug 6th 1883.

New York 8/6th 1883

Order No. 131 B.

Samuel Insull Esq  
65 Fifth Avenue City  
New York  
Dear Sir,  
In reply to your letter of the 4th I would like to know what kind of samples you wish, such as you have on your desk of regular tubes, say in ten foot lengths?  
Yours truly

Please furnish this company with, as soon as possible  
405 round rods of electric copper  
.203 inch diameter  
each rod to be 20 feet 4" long.

order # 1440

THE ELECTRIC TUBE CO.

Samuel Insull

RECEIVED

AUG 8

FILE NO.

To Thomas A. Edison  
65 Fifth Avenue City

Give Date and Number of Order on Invoice.

John Kruesi Treas.  
per Samuel Insull

1893-08-08

The Electric Tube Company

65 Washington St

New York, Aug 10th 1893

T. A. EDISON Pres.  
JOHN KRUESI, Treas.  
SAMUEL INSALL, Secy.

Tools required at a Central Station  
to work on underground  
conductors.

1 Mason's pickaxe #2	\$17.10
1 Spillon's pipe wrench 18"	3.40
1 Samudus pipe cutter #2	3.60
1 Mat. wire die stock, dist #1	13.50
1 screw wrench 12"	.80
2 caps chisels 7/8" each	.40
2 cutl. " 7/8" "	.40
2 " " 1/2" "	.40
1 Sheath saw 12"	1.83
1 Flat 2nd cut file 12"	.35
1 3 cut 2' " " 6"	.15
1 round " " 6"	.15
1 " bastard " 12"	.35
1 McClure's hammer	1.25
1 Hammer	.75

THE ELECTRIC TUBE CO.

Tool list #2

1893-08-08

The Electric Tube Company

65 Washington St.

New York, \_\_\_\_\_ 1888

T. A. EDISON Pres.  
JOHN KRUESI, Treas.  
SAMUEL INSALL, Secy.

1 H. de faced hammer #3	\$1.90
1 for blue pipes	1.50
1 quality knife 12"	.30
1 framing chisel 16" wide	.40
1 m. c. m. gauge, r. r. gauge	5.75
1 soldering lamp (alcohol)	2.54
1-20 gal. farnus boiler <sup>for lamp</sup>	20.70
1 large dipper	.40
1-5 gal. kettle <sup>rinser</sup>	2.50
1 S. saddle	.35
1-15' f. m. w. w. (with strap)	1.75
1 long #1 on short saw <sup>20"</sup>	
1 tub can 1 qt.	.50
1 shoe tape line	6.25
1 small f. m. w. w.	.80
1 Alcohol can 1 gal.	.50

THE ELECTRIC TUBE CO.

Tool list #3

The Electric Tube Company,

1883-08-08

65 Washington St.

T. A. ERICH, Pres.  
JOHN KRUESE, Treas.  
SAMUEL INSULL, Sec'y.

New York..... 188

Special made tools.

1 set of insulated tools 4 pieces	10.00
1 Co. socket-wrench for $\frac{1}{2}$ " high bolts	2.30
1 socket	2.00
1 expansion socket-wrench, $\frac{1}{2}$ " high	2.50
1 wrench for $\frac{1}{2}$ " nuts	
1 plug	.53
1 S. wrench for $\frac{3}{8}$ " x $\frac{1}{4}$ " set screws	.53
1 S. wrench for $\frac{1}{2}$ " nuts x $\frac{1}{4}$ " $\frac{3}{8}$ " plug	.53
<del>1 Allen head screw</del>	00
1 Key die for generating	80.00
1 Plug giff for each size tube	2.00
1 Spreading tool	1.50

\$ 101.39

90 64

1920

Tools on sheet #1 x 2 can be  
found & used ready made.

THE ELECTRIC TUBE CO.

[TO C. H. CAMPBELL]

1883-08-18

The Electric Tube Company,

65 Washington St.

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INSHI, Secy.

New York, Aug 18<sup>th</sup> 1883.

*Mr Campbell  
To Thos A. Edison Esq;  
65 Fifth Avenue City  
New York.*

*If you wish to  
have the Special tools  
made please give us as  
much time as you can,  
as we could not get them  
made in less than a  
week.*

*Yours truly*

THE ELECTRIC TUBE CO.

*for*

1883-08-22

The Electric Tube Company,

65 Washington St.

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INGLIS, Sec'y.

New York, Aug. 22<sup>nd</sup> 1883

Mr. Edison <sup>OK</sup>

If you had any offer  
to make to Chas. Whirth  
I believe he would  
accept it.

His contract with the party  
he is engaged will run  
out by the first of Dec.  
and he intimated that he  
would rather change than  
renew.

Truly yours

John Kruesi

1883-08-25

The Electric Tube Company.

65 Washington St.

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INSULL, Gen'l.

New York, Aug 25<sup>th</sup> 1883

Received from Mr. T. A. Edison  
\$ 500.00 five hundred Dollars Cash.

THE ELECTRIC TUBE CO.

*John Kruesi* TREASURER.



1883-08-26

The Electric Tube Company.

65 Washington St.

T. A. EDISON, Pres.  
JOHN HUBBARD, Treas.  
SAMUEL INSULL, Secy.

New York, Aug 26<sup>th</sup> 1883.

Samuel Insull Esq  
65 Fifth Avenue City  
New York,

Below find  
amount due us from  
the Edison Companies:-  
The Edison Elec Mfg Co \$ 9831.00  
The Edison Elec Light Co 668.80  
The Edison Co for L. L.  
\$ 10499.80

We owe the Associated Co, for  
material re returned by  
them about \$89.00

Yours truly  
THE ELECTRIC TUBE CO.

1883-09-04

The Electric Tube Company.

65 Washington St.

New York. *Sept 4<sup>th</sup>* 1883.

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INGSALL, Secy.

*Samuel Ingsall Esq.  
65 Fifth Avenue City.  
Dear Sir,*

*We received the enclosed check, letter & vouchers this A. M. from Mr Edison Machine Works.*

*The check has no signature. Please oblige us by getting check signed & return same.*

*Yours truly*

THE ELECTRIC TUBE CO.

1883-09-04

The Electric Tube Company.

65 Washington St.

New York. *Sept 4<sup>th</sup>* 1883.

RECEIVED  
Sept 4 1883  
FILED

*Mrs A. Garrison Court Esq.  
65 Fifth Avenue City.  
Dear Sir,*

*We wish to begin shipping our goods for Lawrence Hall the last of this week.*

*Please arrange that somebody will receive them & show them in a dry place*

*Yours truly*

THE ELECTRIC TUBE CO.

*Wm. Richard  
Esq.*

1873-09-17

1223-07-11

The Electric Tube Company,  
65 Washington Street,

The Electric Tube Company,  
65 Washington St.

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INSULL, Secy.

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INSULL, Secy.

New York, Sept 14<sup>th</sup> 1883

New York, Sept. 11<sup>th</sup> 1883

Received from T. A. Edison  
on acct. of foreign Order \$300.00  
of Sept. 10<sup>th</sup> 1883  
\$ 600.00  
\$ 400.00

THE ELECTRIC TUBE CO.  
JOHN KRUESI, TREASURER.

*John Kruesi*  
17/1883

Order No. 1699  
*T. A. Edison*

Please furnish this company with Straight round  
rods of Electric boiler rods in  
lengths of 20 ft 4 inches as follows-

7	Rods	.707	inch diameter
7	"	.671	" "
7	"	.633	" "
7	"	.592	" "
7	"	.548	" "
7	"	.500	" "
7	"	.454	" "
10	"	.380	" "
10	"	.365	" "
10	"	.325	" "
10	"	.300	" "
10	"	.282	" "
10	"	.259	" "
10	"	.238	" "
150	"	.180	" "
150	"	.165	" "

RECEIVED  
SEP 17 1883  
AMERICAN  
FILE NO. 17/1883

Yours truly  
Give Date and Number of Order on Invoice.

*John Kruesi* Treas.  
per \_\_\_\_\_  
#235 + #236  
17<sup>th</sup>

1883-09-26

1883-09-22

40

The Electric Tube Company,

65 Washington Street,

New York.

Sept 22<sup>nd</sup> 1883

RECEIVED

SEP 25 1883

T. A. EDISON, Pres.  
JOHN RUSSELL, Treas.  
SAMUEL INSULL, Eng.

FILE No. 183

The Electric Tube Company,

65 Washington Street,

New York,

Sept 26<sup>th</sup> 1883

T. A. EDISON, Pres.  
JOHN RUSSELL, Treas.  
SAMUEL INSULL, Eng.

Wm. A. Edison Esq  
Contractors, on Sept.  
65 Fifth Avenue City

Dear Sir,  
We beg to state that  
we will make our estimates  
for underground conductors  
for the following districts: -  
Beaumont Texas. Argentine Republic  
✓ Cranswick Indiana  
✓ Charleston S. C.  
✓ Portland Mo.  
✓ Lowell Mass.

Please favor us with the  
acknowledgement of the  
within enclosed  
Yours truly,  
THE ELECTRIC TUBE CO.  
John Russell . . . . . TREASURER.

Samuel Insull Esq  
65 Fifth Avenue City  
New York

The samples  
for the German Co are  
ready for shipment, please  
send us shipping directions  
at your early

THE ELECTRIC TUBE CO.

John d.

1883-09-26

The Electric Tube Company,

65 Washington Street,

T. A. EDISON, Pres.  
JOHN RUSSO, Treas.  
SAMUEL INSULL, Sec'y.

New York, Sept 26<sup>th</sup> 1883.

Thomas A. Edison Esq  
Construction Dept.  
65 Fifth Avenue City  
New York,

We received a letter  
this A. M. from W. J. Douth.  
Brookton Mass, in which  
he orders tools as per  
enclosed lists, he further  
orders a lot of #41, complete  
joints & #56 service joints.  
Please send us an order  
for tools & the necessary  
joints at your earliest  
convenience.

We will ship tools & joints  
without delay.

Yours truly

THE ELECTRIC TUBE CO. *Samuel*

[ENCLOSURE]

1883-09.26

The Electric Tube Company,  
65 Washington Street,

T. A. EDISON, Pres.  
JOHN KINGS, Treas.  
SAMUEL INSULL, Sec'y.

New York, \_\_\_\_\_ 188

- 1 Stilson Pipe Wrench 18"
- 1 Saunders Pipe Cutter #2
- 1 Mall Low Die Stock and Dies #1
- 1 Screw Wrench 12"
- 1 Hack Saw 12"
- 1 Hammond Hammer #3
- 1 Rawhide " #3
- 1 Putty Knife 1/2"
- 1 Framing Chisel 1/2" wide
- 1 Micrometer Gauge
- 1 10" Funnel with Strainer (wired)
- 1 small Funnel (wired)
- 1 set Insulating Tools 4 pieces
- 1 T Socket Wrench for 1/2" tap bolts
- 1 Socket Wrench " 3/8 " "
- 1 Extension Socket Wrench for 3/8" Nuts
- 1 S Wrench for 1/2" Nuts and 7/16" Nuts and 1" plugs.

[ENCLOSURE]

67  
9/25/53

Elec. Supply Co.

Encloses order from  
Mr. J. Jenks

Robbie J.  
Put order  
numbers in  
files

OK

706 d  
7

[ENCLOSURE]

1883-09-26

The Electric Tube Company,  
65 Washington Street,

T. A. EDISON, Pres.  
JOHN KILGUS, Treas.  
SAMUEL INSULL, Sec'y.

New York, ..... 188

- 1 S Wrench for  $\frac{3}{8}$ " and  $\frac{1}{4}$ " set screws
- 1 S " "  $\frac{1}{4}$ " nuts &  $\frac{1}{4}$  &  $\frac{3}{8}$ " Plugs
- 1 Plug Drift for each size tube
- 1 Spreading Tool
- 1 Best Drill and Set Drills  
and Taps
- 1 Gasoline Generator



1883-09-28  
Sept 28 1883

Dear Sir,  
We are in receipt of  
your order # 265 to 268  
we have already sent fruit of  
order # 266, 267, 268 + will  
send balance to-day  
Yours truly,  
THE ELECTRIC TUBE CO.

1883-10-04

The Electric Tube Company.  
65 Washington St.

T. A. EDISON, Pres.  
JOHN EDGEE, Treas.  
SAMUEL INSULL, Secy

New York, Oct 1 1883

Order No. 1731

Please furnish this company with as soon as  
feasible, rods of nickel  
copies no length of 20 in  
diameters, as follows:

- |          |          |      |      |
|----------|----------|------|------|
| 240 rods | diameter | .597 | inch |
| 174      | "        | .548 | "    |
| 285      | "        | .425 | "    |
| 87       | "        | .335 | "    |
| 174      | "        | .238 | " x  |
| 513      | "        | .220 | " x  |
| 81       | "        | .203 | " x  |
| 183      | "        | .180 | " x  |

Full  
order  
code 285  
Oct 4/83  
Thomas S. Edison  
Construction Department  
65 Fifth Avenue (N.Y.)

Give Date and Number of Order on Invoice.

per John Keiser Treas.  
per John Keiser

1883-10-11

The Electric Tube Company,  
65 Washington Street,

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL HISSLE, Secy.

New York, Oct 11<sup>th</sup> 1883

T. A. Edison C. S. C. Dept.  
Dear Sir,

In answer to the second part  
of your favor of this date  
I should say our contractor  
J. O'Connor is going to Lawrence  
this evening, and will no  
doubt make everything  
satisfactory.

I'm surprised as Stevens wrote  
me that the packing was done  
very well & mentioned that every  
body was pleased the way  
that work was done the same  
we heard from O'Connors  
brother who does the packing  
of our tubes  
I received

1883-10-12

The Electric Tube Company,  
65 Washington Street,

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL HISSLE, Secy.

New York, Oct 12<sup>th</sup> 1883

Thos A. Edison Esq  
Construction Department  
Dear Sir,

We expect to  
ship the first lot of tubes  
to Fall River Mass. about  
the 20<sup>th</sup> of this month.

Please write to parties  
to have a dry storage  
space for them.

Yours truly

THE ELECTRIC TUBE CO.

*Handwritten signature*

1883-10-16

The Electric Tube Company,  
65 Washington Street,

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL HIGALL, Secy.

New York, *Oct 16<sup>th</sup>* 1883

*Mr. Edison*  
*Dear Sir*  
Please have enclosed checks signed by Mr. Edison at the earliest possible moment.  
*yours truly*

THE ELECTRIC TUBE CO.

*Edison*

1883-10-19

The Electric Tube Company,  
65 Washington Street,

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL HIGALL, Secy.

New York, *Oct 19<sup>th</sup>* 1883

*J. G. Edison's Co.*  
*Construction, Repair work*  
*65 Fifth Avenue*  
*Dear Sir,*  
Please send us an order for services (tubs, box, joints, compound etc) for Sub. No. 112.  
Also please let us know whether you wish to order any tools for the Fall River Company.  
*yours truly*  
THE ELECTRIC TUBE CO.  
*J. G. Edison*

1883-10-20

Form No. 1.

# THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS and DELIVERS messages only on conditions limiting its liability, which have been assigned to by the sender of the following message. Errors can be claimed against only by repeating a message back to the sending station for correction, and the company will accept their title for errors of delay in transmission or delivery of Unrepeated Messages, beyond the amount of bills paid thereon, nor in any case where the sender is not presented in writing within sixty days after sending the message.

This is an UNREPEATED MESSAGE, and is delivered by request of the sender, under the conditions stated above.

THOS. T. ECKERT, General Manager. NORVIN GREEN, President.

NUMBER	SENT BY	SENT BY	CHARGE
HS9	CW	NY	1100

Received at 852 BROADWAY.

10/20 1883.

Dated Lawrence Mass 20  
 Dr J. Russell

65-5 Ave  
 Will be in New York Monday  
 morning can push Newburgh  
 fast  
 John Kruesi

This telegram has just been received at the office in 852 BROADWAY, just below Fourteenth Street, where any reply should be sent.

**DIRECT WIRES.**

Order # 1782

1883-10-23

The Electric Tube Company,

65 Washington Street,

New York, Oct 23rd 1883

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL HICKEL, Secy.

Thomas A. Edison Esq. N.Y.C.  
65 Fifth Avenue

Please furnish this company with,  
as soon as possible

- x 238 rods of electric copper .125 in diam
  - 657 " " " .365 " "
  - 324 " " " .310 " "
  - 285 " " " .325 " "
  - 609 " " " .300 " "
  - x 96 " " " .220 " "
  - 376 " " " .165 " "
- in lengths of 20 feet 4 inches

Yours truly  
John Kruesi

Give date & number of order on invoice

1883-11-05

The Electric Tube Company,

65 Washington St.

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL HICKEL, Secy.

New York, Nov 5th 1883

Order No. 1881

Arsonia Brass & Copper Co.  
Please furnish this company with

200 rods of Electric Copper in  
straight lengths of 20 feet  
4 inches.  
500 inch Diameter.

Please hurry this order through  
as much as possible.

Nov 346  
Nov 2183  
1883

Give Date and Number of Order on Invoice.

J. Kruesi  
per \_\_\_\_\_ Treas.

Form No. 1

1883-11-12

## THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS and DELIVERS messages only on conditions limiting its liability, which have been assigned to by the sender of the following message. Errors can be guarded against only by repeating a message back to the sending station for comparison, and the company will not hold itself liable for errors or delays in transmission or delivery of Unrepeated Messages, beyond the amount of tolls paid thereon, nor in any case where the claim is not presented in writing within sixty days after sending the message.

This is an UNREPEATED MESSAGE, and is delivered by request of the sender, under the conditions named above.

TISOS, T. ECKERT, General Manager.

NOBVIN GREEN, President.

TO 70	SEND BY Co. em	SEND BY 15th	CHECK 910
----------	-------------------	-----------------	--------------

Received at 852 BROADWAY.

Dated

To

Nov 14 1883

Fall River Mass

65 Fifth Ave

I must pay double price  
or stop buying up Copper  
ordered last

J. Kruesi

This telegram has just been received at the office in 852 BROADWAY, just below Fourteenth Street, where any reply should be sent.

DIRECT WIRES.

1893-11-15

The Electric Tube Company,  
65 Washington Street,

T. A. EDISON, Pres.  
JOHN HUIJER, Treas.  
SAMUEL HULL, Secy.

New York, Nov 15th 1893.

Sharon N. Odessa City  
Construction Dept  
65 Fifth Avenue City  
New York

Your favor of 11/15/93  
received. We cannot ship  
your car loads to Atlantic, as  
we have not the storage  
facilities to handle the  
same in the neighborhood  
where we could store until  
we could ship car loads.  
We shall however endeavor  
to ship 8 ton lots

Yours truly  
The Electric Tube Co.  
Samuel Hull

1883-11-16  
ask Kruezi if he will  
The Electric Tube Company  
65 Washington Street  
New York, N.Y. 1883

T. A. EDISON, Pres.  
JOHN KRUEZI, Treas.  
SAMUEL INSULL, Secy.

as soon as he possibly  
can I give you  
C. C. [unclear] things  
25 [unclear] I bit  
them [unclear] we will comment

They are at  
present unable to  
buy your proposed [unclear]  
on account of not having  
any [unclear] need [unclear]  
at [unclear]

Yours truly  
THE ELECTRIC TUBE CO.  
John Kruezi TREASURER.

The extension of [unclear] #12  
we would [unclear] at the earliest  
time [unclear]



Nov 6/13  
J. A. C. [unclear]  
[unclear] Proposed  
[unclear] Extensional  
[unclear] [unclear]

This is somewhat  
bad for us as I under-  
stand Mr. [unclear] to agree  
to take the work of our  
camp - two weeks ago.  
Would you kindly try  
and convince him to  
help us out in this  
matter

Yours  
[Signature]

Nov 6 13

1883-11-17

**THE WESTERN UNION TELEGRAPH COMPANY.**

This Company TRANSMITS and DELIVERS messages only on conditions limiting its liability, which have been accepted by the sender of the following message. Errors can be guarded against only by repeating a message back to the sending station for comparison, and the company will not hold itself liable for errors or omissions in transmission or delivery of Unrepeated Messages, beyond the amount of tolls paid thereon, nor in any case where the claim is not presented in writing within sixty days after sending the message.

This is an UNREPEATED MESSAGE and is delivered by request of the sender, under the conditions named above.

THOS. T. ECKERST, General Manager

J. BRYN GREEN, President.

NUMBER	SENT BY	RECEIVED BY	CHECK
441	Wm J. Pitt		0.50

Received at 852 BROADWAY.

Dated *Nov 17* 188*8*  
 To *Samuel Insull*

*65 Fifth Ave*  
*Must have blank checks*  
*today without fail*  
*Electric Tube Co*

This telegram has just been received at the office in 852 BROADWAY, just below Fourteenth Street, where any reply should be sent.

**DIRECT WIRES.**

1883-11-22.

The Electric Tube Company,

65 Washington Street,

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INSULL, Secy.

New York,

Apr 22<sup>nd</sup> 1883

Shown as A. Edison Co  
65 Fifth Avenue  
New York

We are rushing  
completing our final  
test & expect to be through  
with it in a few days,  
when we will send  
you one

Yours truly

T. A. Edison

1883-11-23

The Electric Tube Company,

65 Washington Street,

T. A. EDISON, Pres.  
JOHN KRUES, Treas.  
SAMUEL INSULL, Secy.

New York, Nov 23rd 1883.

Samuel Insull Esq

Dear Sir, In reply to yours of the 22nd Inst. - I have, this a. m. completed what I considered the most urgent part of the work in the 1st district. I will finish the rest, as soon as I possibly can.

Yours truly  
W. J. Krues

1883-11-23

The Electric Tube Company,

65 Washington Street,

T. A. EDISON, Pres.  
JOHN KRUES, Treas.  
SAMUEL INSULL, Secy.

New York, Nov 23rd 1883.

Samuel Insull Esq

Dear Sir, We have overdrawn our bank's account, be sure to let me have some funds to-morrow.

Yours truly  
J. Krues  
P. Checks will come to Bank Monday K. E

1883-11-23

The Electric Tube Company,  
65 Washington Street,

T. A. EDISON, Pres.  
JOHN HUGHEL, Treas.  
SAMUEL INSKAL, Sec'y.

New York, *Nov 23rd* 1883

*Thomas A. Edison Esq*  
*Construction Dept*  
*New York*

*Dear Sir,*  
*The mail will*  
*consider of the opportunity*  
*to survey our estimate for*  
*St Louis. This also fills a*  
*bill, based upon the same*  
*document as per your favor*  
*of the 22nd inst.*

*Yours truly*  
*J. A. Edison*

*[Handwritten mark]*

1883-11-23

The Electric Tube Company,  
65 Washington Street

T. A. EDISON, Pres.  
JOHN HUGHEL, Treas.  
SAMUEL INSKAL, Sec'y.

New York, *Nov 23rd* 1883

*Thomas A. Edison*  
*Construction Department*  
*New York*

*Dear Sir,*  
*Please send*  
*us an order for*  
*tools for Newburgh. Should*  
*the price on them not*  
*exceed \$10,000.00, as*  
*in said order?*

*Also send requisition*  
*for services for Newburgh*

*Yours truly*  
*J. A. Edison*

RECEIVED  
NOV 27 1883  
ANSWERED  
*Nov 27 1883*  
FILE NO.....

THE ELECTRIC TUBE CO.

1883-12-13

The Electric Tube Company,  
65 Washington Street,

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL INSULL, Sec'y.

New York, Nov 13th 1883

A. O. Satey, Esq.  
65 Fifth Avenue  
City  
Dear Sir

Referring to  
enclosed memorandum;  
I have sent 2 letters to  
Mr Insull one to  
65 + the other to Longland  
did this to make sure  
that he would get  
either one or the other.

It refers to a shipment  
which Mr Insull  
will attend to in  
England

Yours truly

THE ELECTRIC TUBE CO.

*James*

[ENCLOSURE]

1883-12-12

Mr. Kruesi,

Will you please explain to me, either personal or by letter, what the enclosed refers to, as Mr. Insull has gone away and I am unable to comprehend the contents.

A. O. Tate,

December 12th, 1883.

per G.

C

1883-12-13

The Electric Tube Company,

65 Washington Street,

T. A. EDISON, Pres.  
JOHN BRUSH, Treas.  
SAMUEL INSULL, Secy.

New York, Dec 13<sup>th</sup> 1883

Thomas A. Edison  
Construction Dept  
New York

My boy to  
state that we have with  
will draw the following  
estimates:

Cambridge Conn  
Cambridge Mass.

Utica New York  
Ford Del and N.Y.

In developments of installing  
the 11 circuits at Brewster  
Lawrence, Fall River +  
Newburgh, can fill us  
to base the above estimates  
on different figures.

Yours truly

T. A. Edison

*Edison*

1883-12-19

The Electric Tube Company,

65 Washington Street,

T. A. EDISON, Pres.  
JOHN BRUSH, Treas.  
SAMUEL INSULL, Secy.

New York, Dec 19<sup>th</sup> 1883

Thomas A. Edison Const Dept.  
65 Fifth Avenue.

New York

In reply to your  
favor of the 17<sup>th</sup> inst.

In rendering my bid for the  
Fall River Mass district,  
I included the laying of  
services, the laying of wires,  
in Temple Mount + the service  
to Post Office as per map.

As we did not put  
in the services + the service  
to the Post Office + layed  
20% for less tubing in  
Temple court, the contract  
for we gave you credit for  
the above, as per our bill of  
Dec 13 1883.

*John Brush*



1883-12-20

The Electric Tube Company,

65 Washington Street,

New York, Dec 20th 1883

T. A. EDISON, Pres.  
JOHN KRUGEL, Treas.  
SAMUEL INSULL, Secy.

Thomas A. Edison Court Bldg.  
65 W. Broadway  
New York

The weight of the  
services sent to Newburgh  
is 4 1/2 lbs.

Herewith return your order  
# 665 which you cancel  
as per your letter of the  
19th inst.

Yours truly,

THE ELECTRIC TUBE CO.

John

1883-12-21

Newburgh December 21st 1883

The Electric Tube Comp. & Co.  
To J. North Worcester

20	15	8	1/2	pr	Med	Stam	500	6	Silver	150	9.	50
17	3	to	North	York	150	2	to	Grand	100	2.	50	
18	3	to	Grand	175	3	to	North	York	75	1.	50	
21	1	pr	Med	Stam	50	1	pr	Page	25	1	25	
											15.	25

Rec Payment

J. North Worcester

1883-12-29

The Electric Tube Company,  
65 Washington St.

T. A. EDISON, Pres.  
JOHN KRUESI, Treas.  
SAMUEL WHEELER, Secy.

New York, Dec 29<sup>th</sup> 1883.

Thomas A. Edison Construction Dept  
65 Fifth Avenue City.

Gentlemen,

In reply to yours of the 26<sup>th</sup> inst: The funds you have charged us with \$160,000 worth of supplies whereas we only received of you & bills to the amount of \$148,500.00. This showing a difference of \$11,500.00 in our favor. This added to your balance of Dec 1, as per your statement, shows a balance of \$124,500.00 in our favor same as per our balance sheet of Dec 1.

Return herewith your statement please look over same & you will find we are correct

yours truly

THE ELECTRIC TUBE CO.

Please pay this your immediate attention  
I shall oblige yours  
John Kruesi

Wm. K. Davis  
How about  
this?  
17  
J. G. Y.

THOMAS A. EDISON,  
Central Station, Construction Dept.,  
No. 65 FIFTH AVENUE,

(1883) Form H.

New York, \_\_\_\_\_ 188

Mr. Tate

Will you please  
send me the  
Map of Little  
Port. This one  
you copied from  
Haines Ins. Camps.  
if you have not  
copied it yet  
let me have it for  
 $\frac{1}{2}$  hour to make a  
rough copy. Oblige  
yours truly,  
J. Krueger

**1883. Electric Light - Foreign - General (D-83-036)**

This folder contains correspondence and other documents relating to the establishment of electric lighting systems in foreign countries. Among the correspondents are Willis N. Stewart, Edison's agent for the electric light in Chile; George S. Ladd, agent for Hawaii; and G. W. Sherman, agent for Argentina.

All the documents have been filmed except for duplicate copies of selected documents.

1883-01-24

Subject, \_\_\_\_\_

OFFICE OF THE  
**EDISON ELECTRIC LIGHT,**  
N° 222 SANSOME ST.

610. S. LADD.

*San Francisco,* January 24 1883. 1888

*In reply to yours* \_\_\_\_\_

*No* \_\_\_\_\_

Thos. A. Edison Esq.,

New York.

My dear Sir:-

Through my correspondent at Honolulu, I am informed that we can probably do some business in the Sandwich Islands provided we can have the exclusive right to use your patents and sell your machinery in that territory. You will understand that there are no patent laws in those Islands, but in order to organize a little company at Honolulu it will be necessary to give it exclusive rights for the Islands so far as it is possible to do so. I address you directly in the matter as I suppose the rights of the New York Companies do not exceed beyond the United States. If they do so however, please refer the application to Maj. Eaton.

The population of the Hawaiian Islands is reported at 57685 altogether of which less than 5000 are whites, the remainder being natives and Chinese with whom no business could be done. It is proposed to start in Honolulu with two central station plants each supplying from 1000 to 1500 lamps.

Please furnish me at the earliest moment with a detailed estimate of the cost of such a plant at New York and the

1883-01-24

probable expense of erecting, installing and operating the same  
, also give figures for overhead wires as well as subterranean  
wires, and as much information as possible about village systems.

Very truly Yours,

*Geo. S. Ladd*  
*Geo. S. Ladd*

FABBRI & CHAUNCEY,  
PO BOX 1471.

6  
46 South Street,  
Fabri & Chauncey,  
New York, Jan. 24, 1883.

Thomas A. Edison Esq.,  
65 Fifth Avenue,  
City.

Dear Sir:-

We are in receipt of your favor of the 22 inst., which is carefully noted, and from which we have withdrawn enclosure as stated by you.

We are inclined to look favorably on the proposition of Mef. Moreira Saravia; but, of course, all business connected with Brazil must be

referred to our general agents for that Empire, Mef. Jos. Moore & Co. of Rio de Janeiro.

We have written fully regarding the matter to Mef. G. Ansinck & Co. and have requested them to explain it to Mef. M. & C.

We remain, Dear Sir,

Yours very truly,  
Fabri & Chauncey

13m 9c

Mr. Edison,

1883-01-26

Letters just received from Brazil state that the patent law has passed the Congress, that the officials are now engaged in getting up regulations, and that probably at an early day our patents will be issued.

Meantime, we are sending price lists and full information to our friends in Brazil, so that they can at once get ready for isolated business.

Who shall bear the expense of shipping dynamos &c. to Brazil? We could ship them at our own expense, but I hate to do this. I think the people down there ought to get up a syndicate and furnish the money. What do you say?

S. B. Eaton

Jan. 26th. 1883.

per Mc.G.

*It has never been clear to my mind what our arrangements are with Faber & Channing - If they had nothing to do with it we could do considerable business*



[TO SAMUEL INSULL?]

*Australia*

Copy.

7 1883-03-01

Antwerp, March 1, 1883

*Welles*

New York:

When you have an opportunity you might inform Mr. Edison that the Edison light companies projected in Australia have not proved such a success as was expected.

Draper writes that they have not got their capital yet, principally owing to the fact that our mutual friend Sir Julius Vogel, finding that he could not carry out his Brush enterprise, set himself to work to defeat the Edison, and has spent money like water to do it.

He is trying to force a compromise on the Edison people, just as he tried with us on the telephone.

Yours truly,

F. R. Welles.

1883-03-09

COPY.

Ottawa, 9th. March 1883.

Dear Swinyard:-

I have seen the Minister of Customs to day on the subject which it was agreed I should discuss with him as to the importation of the key sockets. He says that by their present regulations they cannot take a bond to re-export the goods, but that if you will write a letter to him, which you can enclose to me asking for permission to import say 150 of them for "exhibition" purposes only and offer to pay the duty on importation, if the Government will refund it on your re-exporting the goods within six months, he will write an official letter agreeing to that proposal.

This will accomplish the same purpose as if we entered the goods on a bond undertaking to re-export them ourselves.

Send the letter to me and I will get the official reply at once, and you can then I think with safety import the goods.

We discussed the question of duty on carbon filaments and he came to the conclusion that they were liable to a duty of 20 per cent ad valorem. As the articles have no market value, the Edison Co. will have to make up their actual value or cost as nearly as possible, and enter them at that rate.

I am however to write to him a letter for his consideration and will obtain an official reply.

I also saw Mr. Gambie and he has promised to let me have to-morrow copies of the specifications for patents in question, and as soon as I obtain them I will carefully consider the question

and give an opinion in conjunction with either Abbott or Mc.Carthy

✓ I talked the matter over with Cambie who seemed to think that we could without risk import the parts provided for the whole as patented was not imported. His opinion of course is unofficial, and the matter would rest with the decision of the Minister himself, and I intend to have a quiet conversation with him on the subject at the earliest opportunity so as to elicit his views if possible on the subject.

I shall give careful consideration to the whole matter and advise you in the course of three or four days.

Yours very truly,

(Signed) Hector Cameron.

1883-03-24

Subject. ----- :- Hawaiian Islands :-

OFFICE OF THE  
**EDISON ELECTRIC LIGHT,**  
No. 222 SANSOME ST.

003 & 1400

*San Francisco,* March 24 1883. *1883*  
*In reply to yours* 23 March.  
*No.* \_\_\_\_\_

Saml. Insull, Esq.,  
65 Fifth Ave.,  
New York.

My dear Sir:-

I have been absent and have just received your letter. I will see Mr. Merrill, but have already enlisted the most desirable party at Honolulu. I could not answer the former letter because I was waiting for the estimates on village systems promised by Mr. Edison and yourself and just received.

I shall send the whole matter to Honolulu to-morrow and report what my correspondent replies. His last letter was, that if terms were satisfactory and the estimates of plant and profit sufficiently inducing he could form a company at once. He afraid, however, he will object to the percentages named because, as you doubtless know, there are no patent laws in Hawaii.

How about isolated plants for there. At what flat price can he have dynamos, lamps &c., independent of any stock company and royalty.

Very truly Yours,

*G. S. Ladd*

2  
Drexel, Morgan & Co.  
P.O. Box 3036. *Fabri*

New York March 26 1888

Dear Mr. Edison,  
I am in receipt today of your letter of even date, in reference to disposal of our Electric Light interest for Norway Sweden & Portugal.

On Saturday last ~~D.M. & C.~~ cabled Mr. Johnson as follows:

"We leave to your discretion arrange Norway & Portugal - but to avoid mistakes let Gouraud understand we withdraw from

from all further negotiations with him about Countries named Endeavor obtain refund cost patents £2000 Reserve rights Electric Railway.

I am  
Very truly Yours  
*E. P. Fabrik*

1888-03-26

Brough

Hawaii

1883-04-10

Subject

-: Hawaiian Islands.:-

OFFICE OF THE  
**EDISON ELECTRIC LIGHT,**  
 N° 222 SANSOME ST.

REG. S. 1883.

*San Francisco*, April 10 1883. 1883

*In reply to yours* Feb. 30

*M*

Saml. Insull, Esq.,

65 Fifth Avenue,

New York.

Dear Sir:-

Yours with copies of letters received. My letter of Jan. 24. asked for terms and full information concerning village plants &c. Your reply of Feb. 2 acknowledged receipt and promised data in a few days. Mr. Edison's favor of Feb'y 8 gave his terms and promised the estimates "in a week or so". Your letter of Mch. enclosed estimates for Brockton, Mass., and then, for the first time I was in position to submit the matter to the Honolulu people, which I did by the first vessel and so advised you by mail.

I trust this acquits me of the suggestion of neglect? I also advised Messrs. Merrill & Co. of the situation and if our present correspondent did not arrange to take up the matter, I would promptly call upon them.

Very truly Yours,

*Geo. Stoddard*

THOMAS A. EDISON,  
NO. 65 FIFTH AVENUE.

1883-04-19

NEW YORK ..... 188

40 Light Machine,	37.50
20 Light,	22.00
10 Light,	12.75-
Lamps,	45- Each

25 pct off  
to ferro. these  
prices

40 Light Engine,	9.00
20 Light Eng.	7.50
10	

nothing off an Eng its price we  
pay

(Edison)

35

FIELD A SURVEY

NO. 123456789

*June Apr. 19.83*



Hawaii

1883-05-04

Subject. --- Hawaiian Islands. ---

OFFICE OF THE  
**EDISON ELECTRIC LIGHT,**  
No 222 SANSOME ST.

GEN. S. LANG.

*San Francisco,* May 4 1883. 188  
In reply to yours Apl. 18 & 24.  
*No*

Saml Insull, Esq.,  
65 Fifth Avenue,  
New York.

Dear Sir:-

I have just received a reply from Honolulu saying they will reply more fully by the next steamer. They have to pay \$10. @ \$11. per ton for coal and they do not hope ever to place more than 2000 lamps at Honolulu, they evidently think the cost on the terms named will make the light too expensive to compete with coal-oil which is now used. I would advise making the terms just as low as you can afford both for rights and for plant - central and isolated. It is a very limited field and a very small white population.

Cannot you send me several sets of those village estimates?

Very truly Yours,

*Geo. C. Ladd*

Barranquilla, Town at the mouth of the Magdalena River in the South American Republic of Colombia; 1883-05-04

COPY

The United States Electric Lighting Co.,  
59 and 61 Liberty street.

May 4th. 1883.

Mr. J. Ferro,  
New York City.

Dear Sir:-

We would ask your pardon for our delay in giving you replies to the two letters you submitted to us some time since, as we have been moving our office and the writer has had his whole time taken up by giving attention to the necessary alterations, repairs & arranging.

In regard to Barranquilla we would answer:-

1st. The Electric Light is surely a solved problem & can be depended upon. You may judge of this yourself from one fact alone viz:- that we have received the contract to light the great East River Suspension Bridge with 70 arc lights & no other provision for light has been made.

2nd. It is much preferable to gas light & is more economical, except where more light is put in than the gas furnished.

3rd. To light streets for a distance of 40,000 feet, we think you would need at least 100 arc lights. The cost of a plant with power for that number of lights would be approximately

as follows:

2--50 light machines at \$1,000.....	\$ 8,000
100 Double carbon lamps at \$80.....	<u>8,000</u>
Forward.....	\$16,000

2

Brought Forward.....	\$16,000
2 Adjustable bases at \$30.....	60
2 Rheostats at \$125.....	250
2 Current regulators at \$75.....	150
2 Circuit indicators at \$35.....	70
15 Miles RR wire at \$230.....	3,450
8 Miles poles set at \$5. each.....	1,600
Material & labor putting up wire, \$25. per mile...	375
100 Frames & hoods for lamp posts at \$12.....	1,200
Material & labor of hanging lamps at \$1.....	<u>100</u>
	\$23,335
14 X 22 Buckeye engine.....	\$ 2,300
100 H. P. boiler.....	1,500
Setting engine & boiler.....	1,000
Steam connections.....	100
Pump.....	200
Feed water heater.....	400
Shafting pulleys & belting.....	<u>450</u>
	\$ 5,950
Total.....	\$29,285

The expenses per year of 305 days, the lights burning eleven hours per night would be about as follows: Carbons \$6,850; 550 tons Anthracite coal or its equivalent; Wages of an engineer, fireman, 4 men to attend to lamps & 1 man to attend to the line wire &c. The supplies for machines such as Brushes & ordinary

1883-05-04

3

repairs cost about \$150. for each machine per year, & for lamps about \$5. for each lamp. We would call your attention to the fact that these lights would give many times the amount of light that naphtha or gas does.

We trust that this data will be satisfactory & that your friends will favor us with an order.

We would beg your indulgence for a day or two in regard to the estimate for Cartagena as it requires considerable calculation & we have so many estimates to make up.

We are very truly yours,

U. S. Electric Lighting Co.

W. M. Allaire.

1823-05-11

File  
Dear Sir:

The letter from J V Magallon just at hand - Its nature is such that it would be an injustice to all concerned to attempt quote a price for apparatus to ~~perform~~ to give an ~~unknown~~ unknown result the letter is too vague; The party writing ~~has~~ does not give sufficient explanation as to the amount of light each lamp should give or if they are arc or incandescent. I should not be willing to sell the machinery without a certainty that it would be successful in every respect & give satisfaction to the purchaser both as to working, economy, & results required, hence, I ask that you write your correspondent to obtain the following

1st A Map of Barangueña showing the square streets, etc, such map should be drawn to scale so measurements can be taken,

2nd Let the position of the street lamps be marked by a cross X on the map. also the position of the houses that are to use the light with the number of lights marked & the average hours that the

1883-05-11

2

parties will burn these lights or in other words the average number of ~~hours~~ the gally will burn each light every night -

Also mark on the map the position of the ground or the building with its width length of ~~ground~~ or building also the height of the ceiling if there is already a building -

§ The price of steam coal, if the water is good or bad for steam boilers, the price of & method of obtaining water, the price of wood

If the streets are paved or unpaved or any portion paved if <sup>any</sup> paved mark on the map -

If there are carts in Baranquilla capable of handling a large boiler, the duties on machinery such as will be used in electric lighting -

The Cost of Lumber Common per 1000 feet  
The Cost of Brack per thousand feet -

1883-05-11

(2)

The average closing time at night of  
the stores,  
The average time people go to bed  
in private houses —

The population of Baranquilla;

State that, ~~our light~~ we make several  
sizes of lamps, all of which can  
be worked on the same wire.

No 1 Equal to best gas jet. No 2 Equals.

$1\frac{3}{4}$  of gas jet or 3 Kerosene jets.

No 3 Equals 3 gas jets. or 5 Kerosene

burners No 4. Equals 5 gas jets of

8 Kerosene lamps — No 5 Equals.

10 gas jets. or 16 Kerosene jets —

We obtain 10 jets each equal to a  
gas jet for every indicated horsepower  
of the Engine. & the other lamps in  
proportion. That is to say 5 lamps of 2  
jets each. 1 lamp of giving a light  
equal to 10 gas jets.

I herewith send you as a sample  
the town of Danville Pennsylvania  
showing the form of the Town

where the lights are most used, that is to say  
 the best portion of the town that would  
 pay the greatest profit on the smallest  
 investment. The lines running in the  
 blocks with figures at the end, indicate  
 the number of gas jets. The lines in the  
 streets show other things. The Star  
 within red circle show the Central  
 Station, & red lines the wires from the  
 streets wires to the station. There are  
 now about 1800 gas jets in this area.  
 The Cost of the whole thing erected  
 complete is about 29000. including the  
 building wires & all apparatus at the  
 stations & meters. The extra cost of  
 erecting at Baranquilla would be  
 the fares of Experts freight, Custom duties  
 & unknown cost of material which  
 must be obtained at Baranquilla -

Please explain to your correspondent  
 that the wires are on poles, that a wire  
 is run from the main street wires where  
 they enter a meter & from that to different  
 parts of the building where the  
 lamps are situated. The cost of  
 wires & fixtures in the building are  
 paid by the person using the light.  
 The meter measures accurately, the



1883-05-11

amount of light used in the house  
the unit of light is the amount of  
light obtained in one hour from  
a candle burning 120 grains per  
hour of tallow, 10 such candles are  
equivalent to the average coal gas jet in  
practice at Danville we  
sell each gas jet for one cent  
per hour or rather <sup>a light equal to</sup> 10 candles per  
hour for 1 cent. Two thousand candles  
of light measured on the meter  
equal <sup>the light given by</sup> 1000 ~~candles~~ cubic feet of common  
coal gas for this we charge \$2.

The dividends will be about 28 per  
cent at Danville on the cost of  
the complete plant.

Mr Fenn

Ref. There are cut prices at Danville we shall  
have to all your profit on

Edwin

no 9

J. Ferro

may 11<sup>th</sup> 1853

T. P. G.'s hand memo. on J. V.  
Magellan's letter to Beram-  
quello-

1883-05-12

THOMAS A. EDISON  
No. 65 FIFTH AVENUE.

NEW YORK May 12 1883

*J. Ferro*

One special price for you for machine  
+ Lamps are, as follows —

40	arch light machine	\$35.76
20	" " "	\$19.63
10	" " "	11.93

are lamps each \$42.

Independent Lamps — \$1.00  
Sockets about \$1.25

*Thos A Edison*

P.S.

Eng. for 40 light. 9.00  
 10 " } 20 " 7.50  
 50 " } 10 " 3.00  
 110 " } 5 " 1.50

One above price for raw iron

*J. Ferro*

May 15 1883

MEXICO

1883-05-12

Form No. 1.

**THE WESTERN UNION TELEGRAPH COMPANY.**

This Company TRANSMITS and DELIVERS messages only on condition limiting its liability, which have been accepted by the sender of the following message.  
Sender and recipient accept their responsibility for the accuracy of the message back to the sending station or destination, and the company will not hold itself liable for errors or delays in transmission.  
This is an UNREPLACED MESSAGE and it is not to be received by request of the sender, under the conditions stated above.  
THEO. T. ECKERT, General Manager. NORVIN GREEN, *1/11*

NUMBER	SENT BY	RECD BY	CHARGE
607	Ex R	R upd	10-10

Received at **781 BROADWAY**, *Salveston Dep*  
*May 12 1883*

Dated, *Mexico 12*

To: *Wm J Edison Edison's Electric*

*George Hammecken has not my*

*power to arrange any business*

*whatsoever.*

*Poffris Deaz*

This telegram has just been received at the office in 781 BROADWAY, near Tenth Street, where any reply should be sent.

DIRECT WIRES.

1883-05-15

EDISON SPANISH COLONIAL LIGHT CO.  
THOMAS ALVA EDISON, President.  
OFFICE, 71 BROADWAY, ROOM 33.  
P. O. Box 2596.

RECEIVED  
MAY 18 1883  
ANSWERED

.....188..... NEW YORK  
FILE NO.....

May 13<sup>th</sup> 1883

My dear Mr. Edison:

Besides transmitting to the Havana agent the facts concerning the deleterious effects of water gas I will state to him that Mr. Navarro owns the patents of Zipier Dubrouzey for the Island of Cuba. This opinion is one that can manufacture it there.

Yours very truly  
James M. Allen

Thos Alva Edison Esq  
65-5<sup>th</sup> Ave

1883  
11/13

THE ARGENTINE EDISON LIGHT CO.

65 Fifth Avenue,

P R O S P E C T U S .

New York, May 17th. 1883.

A company called the Argentine Edison Light Company has been organized with a capital of \$500,000 to purchase the patents of T. A. Edison for electric lighting in the Argentine Republic and which are now owned by the Edison Electric Light Company of New York, and to operate the same in the Republic.

The amount to be paid the Edison Electric Light Company for the patents and franchises is Three hundred thousand dollars in fully paid shares of the Argentine Company. Of this amount the New York Company will sell \$100,000 stock at 50 cents on the dollar to operate the business. It is thought that \$37,500 will be sufficient to send machinery and erect in the best portion of the City of Buenos Ayres a complete central station <sup>which equal to</sup> system supplying 1600 gas jets. If it is found that this amount is sufficient the subscribers will have the privilege of taking the remaining \$25,000 of stock at 50 cents on dollar if they so desire within one year from date. The \$200,000 of stock then remaining in the treasury is to be sold in Buenos Ayres at par or

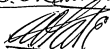
at a premium according to the success of the first station and with the funds thus obtained a larger central station is to be put up or the Argentine Company itself will be sold out to a national company formed in Buenos Ayres for cash and stock sufficient to give a large return to the present subscribers. Mr. George W. Sherman, for many years a resident in the Argentine Republic, has been engaged to represent the Argentine Company there and is to receive from the New York Company sufficient stock to obtain his active co-operation in furthering to the utmost the success of the central station in Buenos Ayres and the Argentine Company's interests generally throughout the Republic.

The City of Buenos Ayres affords the most lucrative field for electric lighting of any city in the world. The average closing time of stores being eleven P. M. and the price of very poor coal gas being \$6.50 per thousand feet. With these long hours and high price, it is believed that the profit will not be less than 150 per cent on the investment annually.

The shares of the Company will be One hundred dollars par, and the name of the Trustees for the first year as follows: Thomas A. Edison, 65 Fifth Avenue, New York City; Samuel Insull, (Secretary of Electric Tube Company), 65 Fifth Avenue, New York City; Carlos

Carranza (Consul General of Argentine Republic),  
 60 Wall street, New York City; Joseph Hutchinson, of  
 the Edison Company for Isolated Lighting, 65 Fifth Ave-  
 nue, New York City; Frank S. Hastings, (Treasurer of the  
 Edison Electric Light Company), 65 Fifth Avenue, New  
 York City; George W. Sherman, Civil Engineer, Buenos  
 Ayres; William S. Perry, 45 Exchange Place, New York  
 City.

The stock subscribed to be paid for within ~~thirty~~<sup>city</sup>  
 days of this date.

NAMES & ADDRESS.	NUMBER OF SHARES.
<del>Thomas A Edison</del>	<del>Thirty</del> Sixty.
Carlos Carranza	Five hundred
Francis R. Minton	Thirty
Margaretha Roll.	Thirty
Chas. A. Brown	Fifty
Lewis K. Leonard	Fifty
Charles F. Roberts	Fifty - Victoria 110 A.S.
Ignacio Brown	Fifty Florida 127.
Sigmund Bergmann	Twenty
L. C. Simmonds	Ten
	Eight



NAMES & ADDRESS.

NUMBER OF SHARES.

*R. Williams Street*

*Twenty (20)*

JOHN NORTON & SONS,  
No. 90 WALL STREET,  
P. O. BOX 1901.

1883-05-18

New York, May 18<sup>th</sup>, 1883

Col. G. W. Sherman  
65 5<sup>th</sup> Av.  
City.

Dear Sir;

Kindly inform us if  
you have come to any definite decision  
concerning the Electric Light material for  
Rivers Ave. We are now making up  
the cargo for the "Mendoza" and would be  
pleased to learn if you wish any more  
material

Yours truly,  
John Norton



1883-05-21

Santiago, Chile,  
May 21, 1883.

Maj. S. B. Eaton,  
Pres't, C. C. L. Co.

Dear Sirs— We are now in negociacion with several towns in this country for the establishment of our system of lighting, but with the information at hand I am unable to give any estimates of probable cost of installation— that is, on the Village plan, the only feasible mode in this country. I would therefore be greatly obliged if you would furnish me full details of cost, embracing the following points:

1. Cost of dynamos, regulators, &c., and electromotive force of same.
  2. Plans of connections, where they may differ from the regular system.
  3. Price list of wires for out-door use, sizes, &c., and cost of insulators and other fixtures required.
  4. Cost of meters, without thermostatic regulator.
  5. Cost of lamps.
- Or Diagram of station connections, &c

7. What was the average cost per lamp of the Rochelle installation?
8. What is the proportion of cost between an installation on the Village system and one on the regular plan?

There are doubtless many other points of equal importance which it would be well for me to understand, and I trust that full details may be given me. We can place at least 4000 lights in Chillian at an early day if we are in a position to give necessary details of cost.

I remain,  
Yours Truly,  
W. N. Stewart.

## MEMORANDUM.

1883-05-25

FROM

B. DE SOLA &amp; CO.,

No. 46 Beaver Street.

To Mr. *Thos. A. Edison*New York, *May 25<sup>th</sup>* 1883*Dear Sir*

*We herewith send you the box of samples, which we have received from Messrs. A. S. Senior & Co. of Barranquilla, as requested by you.*

*Yours really**B. De Sola & Co.*  
*J. D.*

(1883) 05-31

Form No. 2

# CABLE MESSAGE THE WESTERN UNION TELEGRAPH COMPANY.

ALL CABLE MESSAGES received for transmission must be written on the Message Blank provided by this Company for that purpose, under and subject to the conditions printed thereon, and on the blank form, which conditions have been agreed to by the sender of the following message:  
THOS. T. BUCKLEY, General Manager. MORVIN GREEN, President.

RECEIVED AT: *467* SENT BY: *Ed* NO. OF WORDS: *3* CHARGE: *Permanence*  
FILED AT: *64* BROADWAY

Received at *Edison* *6pm* *May 31 1883.*

To *Thos A Edison*

*65 Saw*  
meter

THOMAS A. EDISON,  
NO. 65 FIFTH AVENUE.

NEW YORK

1883

*Handwritten signature: Thomas A. Edison*

I herewith give prices of our machines  
for working arc and incandescent lights. Boxed F.O.B.

40 light machine	\$4687
20 " "	2750
10 " "	1590
Arc light lamps each	56

The 40 light machine will run 350 incandescent lights 2 gas jet  
 20 " " " 150 " "  
 10 " " " 75 " "

Armington's price for Steam Engines are

Engine to work 40 light	\$1125
" " 20 "	\$950
" " 10 "	

Incandescent lamps  
 sockets  
 Socket rhodes \$1.25 each  
 1.50 =

*Handwritten signature: Thomas Edison*

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1883-06-02

The Edison Electric Light Company

65 Fifth Avenue

S. B. Edison Pres  
E. H. Johnson Vice-Pres  
E. P. Fabbri Treas  
C. Goddard Secy

New York June 8th. 1883

Col. George W. Sherman,

City.

Dear Sir:-

I have this moment seen and read for the first time the prospectus of the Argentine Company, dated May 17th., also a memo. handed me by you in connection therewith, to the effect that our Company is to get \$200,000 worth of stock (in the company of \$500,000) after allowing \$100,000 of stock to be sold, and is to place half of this first named amount in escrow, so as to prevent *to draw more than a 50% dividend on the profits* our Company having control of the Company on votes.

Allow me to say that I have read these papers, the scheme being now presented to me for the first time, and that I cannot give the Company's assent to the matter without first bringing it before our Board of Directors here. I will proceed to do that immediately, if you so desire.

Regarding the legality of your proposed issue of stock, your plan involves a question which I prefer the Board to pass upon

Before presenting the matter to the Board, it will be necessary for me to submit it to Messrs. Fabbri & Chauncey to obtain their views, which I will do to-day.

Very truly yours,



President.

Form No. 1

# CABLE MESSAGE 1883-06-09

## THE WESTERN UNION TELEGRAPH COMPANY.

All CABLE MESSAGES received for transmission must be written on the Message Blanks provided by this Company for that purpose, under and subject to the conditions printed thereon, and on the back hereof, which conditions have been agreed to by the sender of the following message:

TO: **NEWYORK** OVERSEA MANAGER. FROM: **NOYVIN GREEN, President.**

NUMBER: **102** REFERENCE: **17** TIME: **10:33**

Received at **191 BERGAWAY.**

*June 9, 1883*

1883

Dated *Paris*

To *Knoxside NY*

*Thos A Edison 65 3rd Ave*

*Arriving and guarantee nothing if cannot*

*give him two months prepare*

*to filing And Cable fortnight before*

*(E)*

To guard against mistakes on the part of this Company, the sender of every message should order it repeated if that is indicated back from the terminal of said lines to the Originating Office. For each repeating, the sender will be charged in addition, not half the usual rate of this Company, on that portion of the line over which such message passes.

The sender is responsible for the accuracy of the message and the Company is not responsible in respect to any message having the character of its own lines and in respect between the number of the following message and this Company, that said Company shall not be liable for mistakes or delay in transmission or delivery, or for non-delivery to the next connecting Telephone Company, of any unrepeatable message, beyond the amount of that portion of the charge which may result from such mistake or delay. For the purpose of this paragraph, the term "message" shall not include any message which is not a message of any Telephone Company, and that this Company shall not be liable for mistakes in the transmission or delivery, or for non-delivery to the next connecting Telephone Company, of any repeatable message, beyond the extra sum received by this Company from its sender for repeating such message over its own lines; and that this Company shall not be liable for mistakes in the transmission or delivery, or for non-delivery to the next connecting Telephone Company, of any message which is not a message of any Telephone Company, and that this Company is hereby made the agent of the sender, without liability, to forward any message over the lines of any other company to which it is directed.

This Company is not to be liable for damage in any case, where the claim is not presented in writing, within sixty days after the sending of the message.

RECEIVED  
JAN 10 1913

Jan 9 / 13

Chas. Batchelor  
Arriving and  
guarantee nothing  
if cannot give  
him two months  
pre-are filing & card  
fortnight before

[FROM WILLIS N STUART]

1883-06-26

**CABLE MESSAGE**

**THE WESTERN UNION TELEGRAPH COMPANY**

ALL CABLES HEREINAFTER received for transmission must be written on the Message Blanks provided by this Company for that purpose, under and subject to the regulations hereon, and on the back hereof, which conditions must be adhered to by the sender at the Office of the Company at the place of origin of the message.

THEO. T. COCKEY, General Manager. HORVIN GREEN, President.

Number of Messages *3* Name of Sender *Wm. H. C. Hartney* Name of Recipient *Edison*

Received at *804 Bway* *442* *June 26* *1883*

To *Edison*

*New York*

*60' 3' am ny*

*Amoy, spenter*

*500 100p lamps*

*ask Mr. Upton*

*what Sankin's Central*

*station volts are*

*4000 same for 10*

*C.P.*

(No. 26)

ANSWERED  
4/7/88

THE EDISON ELECTRIC LIGHT COMPANY, LIMITED.

GREAT MARLBOROUGH STREET N<sup>o</sup> 17,

3RD JULY, 1888.

COPY.

MESSRS THE EDISON ELECTRIC LIGHT CO.,

LONDON.

GENTLEMEN,

ENCLOSED I BEG TO HAND TRANSLATIONS  
OF LETTERS RECEIVED FROM A CORRESPONDENT ABROAD TOGETHER  
WITH PARTICULARS RELATING TO A CONCESSION FROM  
THE GOVERNMENT OF A SOUTH AMERICAN REPUBLIC, FOR THE  
PURPOSE OF LIGHTING THE CAPITAL WITH ELECTRICITY  
AND ALSO A PLAN OF THE CAPITAL.

I SHALL BE OBLIGED BY YOUR PERUSING  
THE SAME AND FURNISHING ME WITH YOUR SPECIFICATION  
AND ESTIMATE FOR LIGHTING AT YOUR EARLIEST CONVENIENCE.

I AM, YOURS TRULY,

SIGNED L. A. CAMPBELL.

[ENCLOSURE]



L. A. CAMPBELL,  
GREAT HARBOROUGH STREET,  
MANCHESTER.

*See enclosure.*

26<sup>th</sup> March 1884.

L. A. Campbell Esq.,

London. E.C.

Dear Sir,

I have the pleasure to send you herewith a printed copy of the Contract entered into with the Supreme Government, for the lighting by Electricity of the principal towns in this Republic, as well as for the application of Electricity to industrial purposes. This Contract tends to us the exclusive privilege of supplying, for 15 years, Electric lighting both for Public and private purposes.

The fixed Rental to be paid by the Government, quarterly in advance, is \$20,000 for the City of \_\_\_\_\_ alone, and the other towns in the Republic are to be lit under the same conditions and terms.

We have already entered into agreements with private individuals for about \$6,000 a year, and have quite certain that a very short time the annual income from lighting private buildings and sugar-cane estates, will reach \$15,000 yearly, so that the Company calculate on a minimum yearly income of \$45,000, which will be increased, by the extension of the Electric light to other towns of importance.

I also enclose plan of this Capital, to better explain the details, which I am about to give you, in order that you may  
see

TELEGRAPHIC ADDRESS  
HALLS OF  
MANCHESTER.

L. A. CAMPBELL,  
GREAT MARLBOROUGH STREET,  
MANCHESTER.

For you were good enough to undertake to have estimates from the different Electric Lighting Companies in London, for a lighting company or establishment for the City of \_\_\_\_\_, as proposed for the purchase of the lighting wires.

1<sup>st</sup> The lighting strength contracted for with the Supreme Government is to be that of 15,000 lights, and with it the whole compass of the City is to be lighted, as well as the public buildings, theatres, barracks & depots. To this strength must be added the lights required for private houses, say, for the present, 2,000 lights more.

2<sup>nd</sup> The principal area which is to be specially to be lighted, is that which comprises the twelve avenues from North to South, and the numerous transverse streets from East to West, there remaining to be lighted a district which marked on the plan as well as a street also marked on the plan, and about 1,500 yards long. The maximum length of the avenues is 2,400 yards, and that of the streets 1,800 yards.

3<sup>rd</sup> At a distance of about 4,500 yards from the City on the North side, there is a current of water very easy to dam up, and to which a sufficient fall could be given to increase its power. The actual body of water produced is four feet six inches per minute.

TELEGRAPHIC ADDRESS  
HALLIBRO  
MANCHESTER.

L. & CAMPBELL,  
GREAT HANCOCK STREET,  
MANCHESTER.

At 4000 metres on the East side there is another class of  
quartz, which presents a volume of body, four times larger than  
the one above described, in which presents some difficulties and  
would be very expensive to plan in an isolated or a small condition.  
In the case of the Hydroelectric power available not being sufficient, the  
Company would have to supplement it by steam power.

4th. Although the Contract requires that the distribution of  
the light is to be in a focus equal to 20 lights each, which would  
increase the number of lights necessary for the lighting of the streets,  
squares and public buildings by 200 more or less, it is proposed  
to make use of 1000, and a different distribution of the lighting  
would be very good, provided that while it was most convenient  
to the Company, the result would be equally satisfactory to the  
public. This is a matter of detail which could  
easily be determined by an Electrical Engineer, on view of the plan  
of the City.

5th. The Electrical current is to be conveyed by means of wires  
in wooden posts, which should be fixed at the sides of the  
street or iron arms which project from the walls of the houses.

6th. The period during which the lights are to be lit may be  
estimated at an average of 10 hours daily, for twenty days in



[ENCLOSURE]

TELEGRAPHIC ADDRESS  
MANCHESTER

L. A. CAMPBELL,  
GREAT MARLBOROUGH STREET,  
MANCHESTER.

the month, as on moonlight nights, no light would be necessary even for "public buildings."

7<sup>th</sup> The lighting private houses the power necessary would be not exceed a power of from 4 to 15 light units.

In view of the foregoing data I should like to know:

1<sup>st</sup> The Cost of the Water & fuel necessary to produce the necessary motive power.

2<sup>nd</sup> In the event of the Hydraulic power available not being sufficient, what would be the Cost of the Steam power necessary to complete the power required.

3<sup>rd</sup> The Cost of the lamps, wires, insulators &c, as per paragraph 3<sup>rd</sup> & 4<sup>th</sup> above mentioned.

4<sup>th</sup> The Cost of the producing machinery as necessary.

5<sup>th</sup> Seasonal plan of the lighting zones which the contracting Company may think necessary.

6<sup>th</sup> Cost per hour and per foot of the lights fixed, being

[ENCLOSURE]

TELEGRAPHIC ADDRESS  
MANCHESTER

L.A. CAMPBELL,  
GREAT HANBOROUGH STREET,  
MANCHESTER.

The following are the terms of contract, printed, in  
pencil, as now in course.

To be taken into account, as more detailed details of the nature  
of lighting, proposed to be adopted, and right and description  
of lamps, apparatus and machinery, system of installation &c.

In addition to the general contract, although I would like  
to purchase everything necessary for my own account, I would like  
to know if any Company would engage to come here and carry out  
the contract for lighting both public & private, handing over everything  
to me in a perfectly satisfactory and working condition, and at  
what cost the Company would contract to do the whole business,  
it being understood that on signing the contract, I would deposit  
with you, at least one half of the value of the contract money,  
and the other half on my receiving over everything in a perfect  
satisfaction.

Although I consider this a very good business and with  
a brilliant future, I should have no objection in accepting a  
proposal for the sale of the concession, provided it were for  
a sum which would be worth while accepting, and I  
would

[ENCLOSURE]

THE TELEGRAPHIC ADDRESS  
MANCHESTER.

L. A. CAMPBELL,  
GREAT HARBOROUGH STREET,  
MANCHESTER.

cannot even take a share in the Company purchasing the  
Concession, assisting the Company to borrow on secured  
collateral the Government securities.

I am assured that there is a very limited market for  
"rental" which according to the information given in various  
reports of the Government, is a very low rate, and that the  
only way to get a better return, what you mean by the  
"free holding", and would be to buy it with the view of  
using it as a collateral or to sell it at once. It is not  
likely that you will get a great advantage, but you would  
provide a sufficient amount of the kind during the day for  
the night's consumption, and should be very well  
about how to get the most labour.

Please enquire into this and advise me if the same is your  
intention.

As to the land in which it has been arranged to buy out  
the Contract in which, and in order to avoid delay, which  
would take place if we had to arrange with the Committee  
and the Government by means of correspondence, I have expressed  
my Brother, to arrange with you in my behalf, in regard  
to everything required. He will, at the same time, obtain  
estimates and proposals from various persons, and then  
they may be arranged with the most advantage.

[ENCLOSURE]

TELEGRAPHIC ADDRESS  
MANCHESTER  
MANCHESTER.

*Dear Sir,*

L. A. CAMPBELL,  
GREAT HAMBROUGH STREET,  
MANCHESTER.

72<sup>nd</sup> April 1883.

J. & S. Campbell Esq<sup>s</sup>

London. W.

Dear Sir,

I enclose my last of the 26<sup>th</sup> inst, which contained all the details which I then had for the Electric Lighting of the new Capital.

Having since considered the inquiries which were being made to ascertain the exact power of water upon which we might rely I now lay before you the result of my calculations.

1. A volume of water 5000 gallons.
2. Volume of water 677 cubic feet per second.
3. Fall 10 metres.

As I presume that the said power will not be sufficient to work the whole of the necessary machinery for the Public & private illumination, I have at present to construct a large tank or reservoir, situated to collect during 14 hours (not required for the light, viz. the water which may be retained at the rate of 677 cubic feet per second viz. 500000000 cubic feet, and during the working hours would give a grand total of 77,464,400 or 1111 cubic feet per second, equal to about 165 2/3 H.P. That comprising turbines, or 150 H.P. of a power which is employed.

I give you these details because they may be of use to you.

[ENCLOSURE]

TELEGRAPHIC ADDRESS  
MULLARD  
MANCHESTER.

L.A. CAMPBELL,  
GREAT MARLBOROUGH STREET,  
MANCHESTER.

in forming a more correct estimate, which as you know is  
of great interest to me.

Dear Sir,

Mr. R. Campbell Esq<sup>r</sup>  
London, E.C.

Dear Sir,

In my letter to you advising you of my desire to put the  
concession for lighting the town of ——— by electricity, I  
could not help but see that the public would be so to speak  
to purchase electricity lighting City with all its lamps, gas, wires  
and the stock & minerals representing a value equal to £100,000  
paid to the Government, and to the effect of the report and  
San Francisco

I have also deposited in the Treasury here the £5000 depo-  
sition required by the Contract, which amount will be returned  
when the Contractor has imported machinery and other accessories  
to the amount of double the value of the deposit money.

TELEGRAPHIC ADDRESS  
HOLLAND,  
MANCHESTER.

L. A. CAMPBELL,  
ORCAV MARLBOROUGH STREET,  
MANCHESTER.

Specification.

Contract entered into with the \_\_\_\_\_ Company  
formed by Messrs: \_\_\_\_\_ for the establishment of Electric Lighting  
in the Capital of the Republic.

The Secretary of State for War, duly authorized, and the  
Company formed by Messrs: \_\_\_\_\_ have entered into the following

Contract for the purpose of establishing Electric Lighting in \_\_\_\_\_

1. Messrs: \_\_\_\_\_ engage themselves to establish, within  
the term of one year from the date of this Contract, Electric Lighting  
in the Capital of \_\_\_\_\_ upon the system of incandescent  
open air lights, of the most suitable modern pattern.
2. The area to be lighted in this Capital will be the same as that which  
is this day, lighted by the means of gasolene, and the light must be  
of 10000 Carcel light power, distributed at such points as the  
Government may determine, in focuses equivalent to 16 Carcel  
lights each. When the Government decides to extend the area of  
the lighting, the Company will be obliged to effect the same  
on the same terms and conditions as stated in the Contract.  
The Company will also supply the number of lights necessary for  
the use of the Public buildings, free of all charge to the Government.
3. The Contractor shall receive and the Government bind themselves  
to pay, most every three months, when the lighting taxes become  
due, the sum of \$1,000 per annum, for the supply of light  
in the above specified and public premises.

TELEGRAPHIC ADDRESS  
 HARRISON  
 MANCHESTER.

10.

L.A. CAMPBELL,  
 GREAT HARRISON STREET,  
 MANCHESTER.

4. The driving engines must be of the Compound system and be worked by steam or equivalent water power, at all points of the most advantageous system and such as would offer the greatest security and economy, and the works must be provided with a sufficient number of large turbines, ~~and~~ which may be required in the turbines.

5. The moving of a small number of engines of 20 horse power each, and must be so used, that no portion remains always in a curve in the work. If the Company intend their supply to the use of private people, they will be obliged to increase the power of their machines of similar proportions, by increasing or increasing their number.

6. Each engine must work the requisite number of electro-magnets apparatus, which produce the currents, the force of which will be from 2000 to 2500 Ceres light and each section must have these latter than will be a sufficient of a certain number (generating machines). It is assumed that the use of water turbines.

7. The Company is responsible for any damage which may result, or result in the course of the electric power, which might happen to animals or property connected.

8. When the Government might consider it convenient, the electric lighting would be included to the most important towns of the Republic, on the same terms, relatively.

[ENCLOSURE]

TELEGRAPHIC ADDRESS  
MARRIOTT  
MANCHESTER.

L. A. CAMPBELL,  
GREAT HARRINGTON STREET,  
MANCHESTER.

1. That of regard to this Contract  
2. The purchase of land in the construction of buildings  
3. The purchase of land in the construction of buildings  
4. The purchase of land in the construction of buildings  
5. The purchase of land in the construction of buildings  
6. The purchase of land in the construction of buildings  
7. The purchase of land in the construction of buildings  
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14. The purchase of land in the construction of buildings  
15. The purchase of land in the construction of buildings  
16. The purchase of land in the construction of buildings  
17. The purchase of land in the construction of buildings  
18. The purchase of land in the construction of buildings  
19. The purchase of land in the construction of buildings  
20. The purchase of land in the construction of buildings



[ENCLOSURE]

TELEGRAPHIC ADDRESS  
HARRISON  
MANCHESTER.

L. A. CAMPBELL,  
GREAT HARBOROUGH STREET,  
MANCHESTER.

... the contract will become void and the Company  
shall be liable for the sum of £10,000 as a fine.

The non-fulfilment of any of the terms stipulated  
under the Company's contract shall be a fine of not less than £10,000 and  
not exceeding £30,000. These fines shall be imposed by the  
General Meeting of shareholders, and shall be the several amounts  
of the said several fines, and the said fines shall be  
paid to the Company and the same shall be a lien in possession  
of the property of the Company under the same conditions as  
stated in paragraph 11th. After the Company shall have  
been established, the said fines shall be paid to the  
Company and the same shall be a lien in possession  
of the property of the Company under the same conditions as  
stated in paragraph 11th. After the Company shall have  
been established, the said fines shall be paid to the  
Company and the same shall be a lien in possession  
of the property of the Company under the same conditions as  
stated in paragraph 11th.

The sum, in part, as stated in article 11th,  
must be deposited, upon signing this Contract, into the  
Company, and will be returned as soon as the Company shall  
show that they have completed machinery and plant for the  
Electric Lighting, for double the value of the deposits.  
The Company shall be liable to deposit the same and pay  
the cost of duty.

The Company shall also enter into possession of the  
machinery and other requisites of the present Electric Lighting

TELEGRAPH ADDRESS  
MARLBOROUGH  
MANCHESTER.

L.A. CAMPBELL,  
GREAT MARLBOROUGH STREET  
MANCHESTER.

with regard to Hall's Contract, and to the provisions of the  
contract of the same, at present in the hands of the  
firm in London.

The Company to provide them with a main system of power  
the actual lighting system, under the same terms and conditions  
as specified for lighting by electricity, and  
the installation of the electric lighting.

It is hereby agreed that all differences, doubts and  
difficulties which may arise between the Government and the  
Company, shall be settled by amicable arbitration, the amount  
paid by each party.

In witness whereof the Contracts are signed and  
of the same tenor and date. Witnessed at

for the Government  
signed - G. S.  
signed - G. S.

Approval of the preceding Contract.

The General Director, finding the preceding Contract  
to be in conformity with the instructions given to the Director  
in the War Office, for the purpose of providing a main  
and a good system of electric lighting to the  
War Office, has approved the same, and has directed  
to be communicated.

1883-07-14

N.Y. July 14th 1883.

Mr J. A. Edger

Dear Sir

I am requested by Col  
G. W. Sherman to enclose you this  
letter received by him from Buenos  
Ayres. Col Sherman is quite sick  
and intends going to the Hospital  
until he is well enough to attend  
to business.

The plans sent for will be forwarded  
by next mail from Buenos Ayres.

Col Sherman is now at Smith &  
McKell's Hotel at Grinnel & Bay Sts.

Respectfully  
J. M. Calahan

THOMAS A. EDISON,  
Central Station, Construction Dept.,  
No. 65 FIFTH AVENUE,



1883-07-26  
Form 7.

New York, \_\_\_\_\_ 188

Major

I want to write a letter  
to a lawyer in Buenos Ayres  
giving him power of attorney in  
my name to apply for permission  
from the Municipality to lay tubes  
in the streets (all) of Buenos Ayres  
for the distribution of E. for light  
& t.p. I don't know how to do  
it Can you help me out

Edison

<sup>6</sup>  
July 26<sup>th</sup> / 13

J. A. Edison to S.M.

re- desiring to get  
Power of Attorney for  
Lawyer in Buenos  
Ayres + L.P. 50

Reply to Daniel

1883-07-26

July 26 - 55 -

Mr L. A. Edison

Dear Sir

The Guatemala Circuit  
General will arrive here on Wed-  
nesday next and then give you  
all information in regard to  
those contracts.

I have been promised to several  
places today, but can't get any  
further information in regard  
to it.

Yours truly  
W. C. Sherman

MEMORANDUM.

Samuel Inwell Esq.  
65 Fifth Ave.  
New York.

OFFICE OF  
Western Electric Company,  
62-68 New Church Street,  
P. O. Box 1745. New York.

Aug 7, 1883

Dear Sir -  
I am sorry to hear that  
your letter from Mr. Welles regarding  
royalties, left with you by the writer.  
We should be pleased to have  
your reply for Mr. Edison, to our understanding  
of the royalties for the 1873, in accordance  
with the agreement between us and  
Mr. Edison.  
Yours truly  
Western Electric Co. C. A. Brown

1883-08-16

Edison Electric Light Co.

(Stereotype)

Boston, August 16th, 1883.

*Answer to [unclear]*  
[unclear]

Thos. Edison, Esq.  
New York City.

*I think Bradley's suggestion is good. One of Westman is our agent there together with E*

Mr. E. L. Hulbrook, the gentleman who is going out to China, to set up machinery in the Shanghai Cotton Mill, came in here yesterday for the first time. I find he does not expect to take charge of wiring the mill, nor assume any responsibility beyond getting a general knowledge of wiring. He has almost no time to give to this matter before he goes, nor has the other man whom you expected to go with him to the 'Lockwood' Mills turned up yet, and there is no knowing when he will.

Since they must sail so soon, it seems to me a very risky piece of business to have the success of our system depend upon men of so little experience. I told him yesterday to bring his plans in, and we would lay out the work for him. To-day he came in, and says he finds the plans have gone to China. He cannot give us the arrangement of the machinery, and all he can get for us is a sketch of the looms which the pipers have to lay out their work. From the number of looms and spindles, we know that he will need about 275 to 300 lights, if the mill is arranged approximately as American Mills are built.

This information, of course, is entirely worthless when it comes to an attempt at planning the wiring, and in fact, even

if the two men who are to go, were shown our system, I do not believe that either would be competent to lay out the work and figure the wiring in China.

I see but one way out of this difficulty, and Mr. Holbrook agrees with me, that it is the only way, namely, to select one of our most experienced foremen, post him thoroughly in all the details of figuring, and prepare him for such difficulties as he would be likely to encounter, sending him out to China to set up and start the plant.

What suggestions have you to make as regards this arrangement. I can find such a man in the New England Dept.

Yours very truly,

*Spencer Borden, Manager,*  
N. E. Dept.



Santiago Chile 6

THOMAS A. EDISON, PRESIDENT,  
SAMUEL INSULL, SECRETARY & TREASURER

Stewart's Notes

Form 19-1000

EDISON MACHINE WORKS,  
OFFICE, 65 FIFTH AVENUE, (Room 17.)WORKS,  
104 GOERCK ST.

New York, \_\_\_\_\_ 188

Send them Map Tiffin, Newburgh Piquia,  
Have Gramani Explain how he is to canvas for the  
private lighting - also to arrange the exact  
position of the street lighting, which experience  
has shown that a 32 C power lamp at  
the + of the 2 streets is the best -  
to send all the data thus obtained here -  
also about cost wood coal, cost of pole  
give size & length = Send him plan  
of bldg + arrangement of machinery at  
Piquia Newburgh + Tiffin -

Send give price FOB New York for all the  
apparatus for a 500 800 1000 1600  
3200 Light plant except the wire in  
the streets + insulators, and supplies of  
wire for the interior lighting with fixtures  
this we can obtain from the Canvas he sends.  
Get wire covered strikes it near if he sent the  
60 lighted interior + also the area +

Estimate Bill 2

(1883-09-08)

Form 1 W-1000-3-10-04

THOMAS A. EDISON, President,  
SAMUEL INSULL, Secretary & Treas.

EDISON MACHINE WORKS,  
OFFICE, 65 FIFTH AVENUE, (Room 17),

WORKS,  
104 GOERCK ST.

New York, \_\_\_\_\_ 188

number of lights for street lighting -  
the Street Lighting is done on separate  
Circuit so all the estimate sent  
will not include the plant for street  
lighting the cost of this will  
be very little extra except the costs  
of the Street man's, We can  
send Experts to erect ~~stations~~  
put the machinery going, for about  
\_\_\_\_\_ fare there & back -

He would have to supply all ordinary  
Labor erect Oldg poles etc

12 pct + 25 pct F.O.B.  
15 pct to him  
he charges what he likes

Isolated Big

give him size dynamo, Bergman Catalogue  
+ arrange on same basis as Stewart,

A. W. DANFORTH,  
Manager.

1883-09-26

CHING TAUCHAI,  
Commissioner.

SHANGHAI COTTON CLOTH MILL COMPANY,

Shanghai, China Sept-26<sup>th</sup> 1883.

W  
Thos. A. Edison Esq.

#65, Fifth Avenue

New York N.Y. U. S. A.

Dear Sir:

Your esteemed favor of the 8<sup>th</sup> August is duly at hand. I cannot express to you how thankful I am at its contents. For many reasons I wanted it to come from America and had I known that you could have furnished it I should have remained in America longer and attended to the affairs myself which I have been obliged to leave to you and Mr Kellogg. I am very sorry to put you to so much trouble and very grateful for your prompt and kind attention. I shall send you a set of plans from here as soon as I can settle up everything.

I cannot possibly get the mill ready for your lights till next autumn so there will be plenty of time. I thought that they had the mill beam but find they have done nothing.

A company is making the British lights for the streets here but it is very unsatisfactory.

Yours very truly  
A. W. Danforth  
Manager S. C. C. M. Co.

Tell Shinneman that we could not  
 take the contract if we  
 could only take it for city where  
 that portion of the station is  
 based on whether we better  
 New York Oct. 2nd 1883  
 Mr Thomas A Edison  
 Brocton Mass

Dear Sir

You will find inclosed an advertise-  
 ment inserted in the New York Herald by Mr  
 Carranza, asking for Proposals for lighting the  
 streets of the City of Buenos Ayres. I call your  
 attention to it, and Mr Carranza joins with  
 me in considering it just the opportunity that the  
 Edison Argentine Electric Light Co should secure  
 without delay. With this in view Mr Carranza and  
 others will take the balance of the day.  
 Please give this matter serious consideration, and be  
 prepared to take immediate action on your return.

Yours very Truly  
 Geo. W. Shinneman

1883-10-13

Major Eaton,

I enclose you herewith letter received by Mr. Edison  
from Mr. Ladd.

We have written him stating that we have referred the  
letter to you, as we believe the Lynch Co. has a contract in  
Mexico. We have also told Mr. Ladd that he will doubtless hear  
from you on the subject.

*Very similar  
letter to Ladd  
I had  
and  
GP*

S. Gull,

October 13th. 1883. X

per G.

H

[ENCLOSURE]

1893-10-23

Subject: ) City of Mexico.:-

OFFICE OF THE  
**EDISON ELECTRIC LIGHT,**  
Nº 222 SANSONE ST.

GEO. S. LADD.

*San Francisco,* October 3 1893. 188

*In reply to yours*

*No*

Thomas A. Edison, Esq.,

New York.

Dear Sir:-

Hon. Ramauldo Pacheco, ex-Governor and Congressman of California, leaves tomorrow for the City of Mexico and will visit New York in December. I have given him letters to Major Eaton and yourself.

The Mayor of the City of Mexico has requested him to recommend the best system of electric lighting for that City, as they desire to adopt one within three or four months. There is already an Arc lighting company in the City, but the Governor does not know which system it is. I think he will be strongly influenced by my recommendation of the Edison incandescent.

Please write to him immediately at the San Carlos Hotel, City of Mexico, telling him whether you can deal directly with him, or referring him to your licensee or other representatives there, if you have any. Give him all the information possible and send him any printed matter which may be of use.

The Pachecos are <sup>preeminently</sup> ~~preeminently~~ the leading Californian <sup>family</sup> ~~family~~, and the Governor is the head of the family. Their high

[ENCLOSURE]

1883-10-03

connections among the ruling families of Mexico and his high political and social standing in this country, gives him a position among the official people at Mexico which should be very valuable in this connection.

Hoping something may come of it, I am,

Very truly Yours,



-: Duplicate to Major Eaton.:-

*Handwritten notes:*  
D  
W  
1883  
10  
3





Temple Court,  
5 BEEKMAN ST.

MEMORANDUM.

1883-11-09

New York, *Novem 9<sup>th</sup> 1883*  
*F. M. Tate*

*65 Fifth Ave*

Will you kindly send me by  
bearer the South American  
Estimates which I have just  
learned by telephone are ready

Yours truly  
*C. Souard*





6  
Nov 9/1883

G. Bidgood  
re Col. Sherman  
& the Argentine  
Co

1883-11-09  
1016  
New York Nov 9/1883

Thos. A. Edison Esqre  
no. 65 5<sup>th</sup> ave.

Dear Sir

As you are aware, Colonel Sherman expressed himself as expecting to receive the Argentine Papers by or about the 26<sup>th</sup> ulto. I saw the Colonel just prior to the 1<sup>st</sup> instant and urged upon him the advisability of dispatch in the matter. Since then I have heard nothing from him - my friend states that he is ready with the necessary Capital at any time on the presentation of satisfactory papers. Will you kindly favor me with a line informing me how the matter stands at present, and much obliged

Yours truly  
Geo. Bidgood  
The rights are a humbug anyway

numerical permission in getting



MEMORANDUM.

1883-11-23

New York, Nov 23 1883  
D. Insull Esq.  
Dear Insull

I did not get that estimate  
last night - Cannot you send  
it by bearer I leave this  
P.M.

Yours  
C. Goodass  
Estimate for San José de Guatemala

A. E. CHANDLER,  
President.

1883-12-01

H. SEYMOUR GEARY,  
Vice-Pres. and Treasurer.

THE FULLER ELECTRICAL CO.,

OFFICE, No. 44 EAST 14<sup>TH</sup> STREET.

Wheeler & Wilson Building, Union Square.

Address all Correspondence to  
"The Fuller Electrical Company."

NEW YORK, Dec. 1, 1883.

Friend Edison:-

A. J. Brown, W. U. foreman of construction in this city, and W. C. Smith, foreman here for the Rapid Company, are hard working, pushing, and capable men in telegraph service. Whether they would suit your service or not, could only be ascertained by trying. Neither of them wears so large a hat as you mention, and I doubt whether either of them ever heard of Plato. I don't know whether either of them wants to leave his present place. If I should learn of any other who would be likely to suit you, I will send him to you for "inspection."

Your's,



A. B. CHANDLER,  
President.

1883-12-01

H. SEYMOUR GRAY,  
Vice-President and Treasurer.

THE FULLER ELECTRICAL CO.,

OFFICE, No. 44 EAST 14<sup>TH</sup> STREET.

Wheeler & Wilson Building, Union Square.

"Address all Correspondence to"  
"The Fuller Electrical Company."

NEW YORK, Dec. 1, 1883.

Dear Edison:-

Col. G. W. Sherman  
applies to us for business  
connections with us in the  
Argentine republic, - not to in-  
terfere with yours. -

He seems a "queer Dick"  
and yet to possess some real  
merit. - May I ask what  
you know of him? -

Yours Chandler

~~Refd to Mr. Gray~~

Refd to Sherman

FROM

MEMORANDUM.

1883-12-08



Temple Court,  
5 BEEKMAN ST.

New York, Dec 8 1883

Wm Insull Esq

W. M.

My dear Insull What has become of the revised estimate for Guatemala? I hear you are going away Tuesday & as I am going to Boston Sunday night I fear I may not see you before you leave. Would you either send it to me here or leave such instructions with Mr. Jink that I may get the figures through him on my return. I have been chafing you round by telephone but have not been able to catch you. If I don't see you I wish you a pleasant voyage & a good time  
Yours  
C. C. Caldwell

[INCOMPLETE]

Organize say the Mexican Electric  
Light Co, with capital of  
                     dollars,

Elective officers and appoint  
a technical manager of  
some business capacity who  
must come to N York =

Obtain a Contract from the  
Light Co here, whereby all  
rights & patents are to be  
assigned over to the Mexican  
Company with future improvement.

[INCOMPLETE]

2

This ~~can~~ can probably be obtained  
for 25 pct of the Capital of the  
Mexican Co or 25 pct of the  
Capital of each individual  
Company - of this 25 percent  
 $\frac{1}{5}$  is cash -

Edison will contract for each  
individual City or town make  
itemized tenders for complete  
installation of any town or  
City - terms 25 percent  
Cash down 50 percent after  
Installation is completed &  
ready to supply light  
& 25 percent when the

[INCOMPLETE]

4  
after two or more of the smaller  
tours have been installed & are found  
to work  $\$$ atisfactorily both  
financially & technically  
It

Notes -

Edison will ask Electric  
Light Co here for a form of  
Contract which they will give

On closing contract Edison  
will send a man to Ojaca to  
go over the tour to obtain  
data to estimate work  
12 days after receiving data



[INCOMPLETE]

5

will send to Mexican Co.  
tender to install the system,  
financial arrangements being  
made through house in Mex.  
will send mill machinery <sup>3/4</sup>  
~~It~~ probably within 30 days  
after contract signed -

~~Wholesale~~

All small plants for  
Cotton Mills, Estates  
etc, to be sold to  
Mexican Co. at same

price as to Co. in US <sup>plants</sup>

I think about <sup>28 million</sup> 1,800,000 can be

invested in whole of Mexico  
that will ~~give~~ <sup>give</sup> very great returns,

8 (1883)

Mr. Inauell  
Theband <sup>Hastings</sup> Cross, <sup>or</sup>  
Broad St. City, have a  
friend in Porto Plata on  
the Island of Santa Domingo's  
who wants information. —  
This is an independent  
island, & therefore not in  
the control of Fabrice &  
Channey or the Spanish  
Colonies. I promised Mr  
Theband I would ask you  
to send him the approximate  
cost of a 60 light installation  
with an engine & one  
without engine. He wants

(1883)

the information as early  
tomorrow morning as  
possible. — (Tuesday) I  
have an engagement  
with Mr Vandenberg. I  
shant be here till late.

Yours  
Hastings

Monday eve

~~1883~~ (1883)  
 No. 2 - To acquire the Patents  
 granted to Thomas A. Edison  
 by the Argentine Republic, for his  
 inventions relating to electric lighting  
 and generating, regulating & applying  
 electrical currents in an electric  
 lighting circuit for producing light,  
 heat and power; and to manufacture,  
 erect, maintain or sell ~~the~~  
~~license others do to~~ electric apparatus  
 for electric lighting, heating or power  
 in said Argentine Republic; and to  
 license others so to do.

[MEMORANDUM BY CHARLES BATCHELOR]

2 Armingtons & 1/2 Cigars 1 Red Plate <sup>3170</sup> 477.70 <sup>(1783)</sup> 399.70  
~~2927.70~~

4 Regulators

1100.00  
509.70

~~7976.33~~  
~~5099.70~~  
~~2948.63~~

Cable three thousand dollars amount account less four regulators and two Armingtons. Also arrange payment here lamps on shipment

Material as called for in Estimate from Edison <sup>(1883)</sup> and  
 United Light Co. for Sugar House in Samarara  
 British Guiana

One 100 (16cp) light dynamo	725	1631
One Pressure Indicator	50	55
one Resistance Box	100	110
Wire in assortment for 100 lamps	9670	10657
Switches	41	45.10
Cleats	180	198
Cut out	960	1056
50 Polished lined socket with key	3880	4268
20 - - - - - with key	18	19.80
100 lamps (16cp)	40	100
Tape screws etc	10	11
Mountings	20	22
	<u>115090</u>	<u>215549</u>

**1883. Electric Light - Foreign - Europe (D-83-037)**

This folder contains correspondence, agreements, articles of incorporation, and other documents relating to the establishment of Edison electric light companies in Europe. Much of the correspondence is by Joshua F. Bailey, Edison's agent in Europe, and by Charles Batchelor, who was in France as Edison's personal representative. Some of the correspondence is in the form of cable messages to and from "Heraclite", a code name used by Bailey. Other cable messages are addressed to "Eknoside New York", a code used by Batchelor for messages to Edison. Related material can be found in D-83-031 (Electric Light - Edison Electric Light Company of Europe, Ltd.) and in the Primary Printed Collection (Company Records Series).

Approximately 90 percent of the documents have been filmed. The following categories of documents have not been filmed: routine correspondence relating to accounts, orders, and shipments of goods; shipping instructions, bills of lading, and other routine documents concerning orders and shipments; routine foreign-language documents lacking English translations; duplicate copies of selected documents; copies of cable messages filmed in Letterbooks, LM-001 and LM-002 (Letterbook Series).

C<sup>ie</sup> CONTINENTALE EDISON

SOCIÉTÉ ANONYME  
Au Capital de 1 million de francs  
EXAMENS INTERNATIONAUX D'ÉLECTRICITÉ  
Paris 1881  
GRAND DIPLOME D'HONNEUR

ADRESSE TÉLÉGRAPHIQUE  
EDISON, PARIS

33 Avenue de l'Opera, Paris,

2nd. January, 1883.

*89*  
*ad. to Jan*

*We can make a  
100 or 150 candle*

*power  
lamp. The whole power  
light coming from one table  
lamp 1/2 - 1/4 faire battery*

Dear Sir:

We have just received a visit from an Officer in the French Army who is in charge of Optical Telegraphy. They wish to have a light which is intense and also in small compass, and he had the idea that your lamp would serve them.

He says that they cannot well have a greater weight than 50 kilos to transport, and this weight ought to be as compactly disposed as possible, and, of course, not exposed to accident from transport, and from the conditions in which it would be necessary to use it. Can you make any suggestion that would be useful in this direction, whether relating to a special form of battery or to special dispositions of any sort whatever?

The name of the gentleman who called is Captain Louis De Place of the School of Application of Cavalry, Namur, and you will please mention this name and address in your reply, so that the matter may not be overlooked.

Your answer will oblige,

Very truly yours,  
SOCIÉTÉ ÉLECTRIQUE EDISON

*J. M. Hall*  
*Directeur des usines*

1883-01-06

*Handwritten signature/initials*  
C<sup>IE</sup> CONTINENTALE EDISON  
société anonyme  
Au Capital de 10,000,000 de francs  
EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ  
Paris 1881  
GRAND DIPLOME D'HONNEUR  
ADRESSE TÉLÉGRAPHIQUE  
EDISON, PARIS

33 Avenue de l'Opera, Paris,  
6th. January, 1883.

T.A. Edison Esq.

65 Fifth Avenue, New York.

Dear Sir:

The following is a translation of a letter we have received this day as to the additional credit of \$10,000 required by you from the Italian people. Please let us know at the earliest possible moment what reply we should make to this communication.

(COPY.)

Milan, 4th. January, 1883.

"To the Compagnie Continentale Edison, Paris.

"Gentlemen:

"We are in receipt of your favours of the 28th. and 30th. December as well as of your two telegrams of later date informing us of Mr. Edison's demand of a new credit of \$10,000.

"We must admit that we have been very much surprised at this new demand, the more so as you had announced to us in your telegram of the 10th. December that the new credit of \$16,000 would be sufficient of the balance due Mr. Edison. In fact that despatch informed us that Edison asked urgency for a fresh credit of \$16,000 in full of order." We opened the credit thus asked for and thought "all was in order, when here you write us again on December 28th.



"saying that the material sent surpasses the credits opened by \$4973.  
"23, and your telegram of the 1st. instant raises this figure to  
"\$10,000. "

"We do not know whether it is you who made a mistake in  
"your despatch of 10th. December, or if it is Mr. Edison who makes  
"a mistake in asking for this new credit; but we cannot conceal from  
"you that the Milan Station costs a great deal more than the first  
"estimates led us to expect. For the moment therefore we do not  
"see our way to open a new credit, especially as we have not received up to this time but a very small part of the whole of the material ordered, and that having already authorized the payment of  
"nine-tenths of the price, we consider that we have a right to retain a small balance which will be paid after receipt and verification of all the material, as is the custom in all enterprises of  
"this kind.

"You inform us also that Mr. Edison is going to send us at  
"the beginning of February the new Armington & Sims engines. We  
"thank you for your good services in this matter; but is this the  
"reason for the new credit of \$10,000? We can hardly suppose so;  
"for from the moment that the Porter Allen engines have been protested by Mr. Edison and their payment suspended by him (and he has  
"already had two of these engines removed from the Central Station  
"at New York, as a letter received by Mr. Lieb yesterday announces)  
"we also have the right to protest them, as we now formally do, and  
"we have also the right to receive the new engines without paying a

"single denier, Mr. Edison being wholly responsible <sup>vis-a-vis</sup> with us,  
 "who entered into no agreement with the Porter Allen people, for the  
 "good quality of the material that is delivered to us. We should  
 "even have the right to demand repayment of the whole cost of trans-  
 "port, custom dues, &c. which we have been obliged to pay for the  
 "present engines, which will be of no use to us, and which are placed  
 "at your disposition.

"If it is only a matter of a small amount you can arrange  
 "it by debiting our account with you, and we will arrange it after  
 "receipt and verification of the whole of the material; it being  
 "well understood, however, that we shall only accept the material  
 "ordered by us. As to the new engines we understand that they will  
 "be delivered to us free of charge, considering that we have already  
 "done too much in charging ourselves with the expenses which they  
 "have caused us. You may communicate our intentions in this matter  
 "to Mr. Edison as settled, believing that you cannot doubt their per-  
 "fect justice.

Sd.) Comitato per le Applicazioni  
 dell'Elettricità in Italia  
 E. Rava. "

Your immediate attention will oblige,

Very truly yours,

COMPAGNIE CONTINENTALE EDISON

*Rava*  
 Administrateur Délégué

Arrived  
Feb 2<sup>nd</sup> 1885

10883-01-13  
Milan  
Italy  
Jan 15<sup>th</sup> 1885

Thomas A. Edison, Esq.

Dear Sir,

I arrived here  
Dec. 8<sup>th</sup> and immediately  
reported to Prof. Colombo  
who informed me that it  
would be some time  
before it would be possible  
to accomplish anything  
toward the internal arrange-  
ments of the Central Station.  
The work has progressed  
very slowly and at present  
there is but little prospect  
of our being able to run  
any lights from the Station  
before the first of March.  
The roof of the Station and  
the stack have just been



finished otherwise there has been little done with the internal work.

The Brick Dynamo Foundations have been put down but it will be impossible to begin setting up the Dynamos until the Brick arch flooring overhead is finished.

The Boilers and Dynamos are packed up just as they arrived and are still at the Milan Custom house.

Mr. Patterson began laying the Tubs Jan 2<sup>nd</sup> and it will probably take until the middle of February to finish the street work.

During the past few days it was impossible to make any progress with that work as it snowed for two days and rained the day following.

None of the buildings have been wired but they will begin to prepare for the wiring next week.

As there was nothing else to do, I have prepared working drawings of the internal arrangements of the station in order that when they are ready with the building the work may proceed rapidly. If there have been any new developments in connection with the taking off of the current from the C. Dynamos please let me hear of them.

Very respectfully

John H. List &  
Co. Colombo  
via Mangini 12A  
Milan Italy.

1883-01-15

# Internationale Electriche Ausstellung

Wien 1883.

Directions-Comite:  
I., Wallfischgasse 9a.

Wien, the 15<sup>th</sup> January 1883.

Dear Sir,

In the course of sending off the general invitations for our International Electric Exhibition we likewise addressed one to you.

We, however, cannot forbear inviting you particularly to join our Exhibition for we have been accustomed to find your honourable name connected with all matters respecting Electro-technic.

In doing this we only pay due respect to him who ranks eminently among the first inventors and improvers in the most important branch of our days.

We trust, dear Sir, you will kindly

Mr. Thomas A. Edison

Menlo Park

New York

seize the opportunity of our Exhibition by displaying some of your latest constructions and thus raise new claims to the admiration which all the world bestows on you.

Hoping you will kindly consider our wish, we remain, dear Sir,

Yours most respectfully  
Das Directions-Comité.  
Carl Hoff, Secrétaire

1883-01-19

Societe d'Appareillage Electrique

Genève, le 19 Janvier 1883.

Thomas A. Edison Esq.  
65 Fifth Avenue  
New York.

Dear Sir

We have the pleasure to inform you that we have this day formed a Company under the name and title "Societe d'Appareillage Electrique". Consequently your interest in the profits of the Company regard that 15th day of January 1883.

We have examined the contract or had entered into with the "Societe Generale des Travaux au Gaz", dated their 15th Sep: 1880 and which has then been approved by your directors in view of its exact manner and we have authorized to the above named Societe d'Appareillage Electrique all our rights you have conferred on us by your contract dated the 19th Sept: 1880.

It soon at our establishment of fabrication are finished and registered in full and you are granted a copy - but we thought best to inform you at once of the fact that we are ready for work.

We think that you might now be able to have your lamps at a lower price than of \$2.50 at you can see further in the sale of them and we hope you will make a concession.

Please send us immediately all the models of meters, regulators and other apparatuses connected with your system and all the drawings of the large machines and other subjects for which M. Esmein had asked.

We meet at present the following lamps of high pressure ship by Express to the (fast freight).

Société d'Appareillage électrique  
Rue de la République 108.

Strasbourg ————— Geneva

50000. Lampes à Candles.

3500. do. 16. do.

1500. do. 32. do.

Chief being the first lot of lamps bought by the Company; please inform them at a reduced price and inform us at the same time in which way you intend to make payments for the lamps, and if you would be more convenient that you should deal on us for the same. M. Esmein is the chief engineer of the Company.

W. Esmein, Directeur  
Your very truly

SOCIÉTÉ  
D'APPAREILLAGE ÉLECTRIQUE  
LE DIRECTEUR.

*[Handwritten signature]*

*[Handwritten signature]*

1882  
Esmein



Berlin 20 July 1883-01-20

Mr. Edison  
Dear Mr. Edison

Mr. Edison:

It will be impossible for me  
to receive anything about the matter until S. & H.  
The German Bankers tell two or three days later  
you cable about Italian Porters - Arrington's was def. Wed.  
Colombo writes me today that you say to them that two Arringtons  
will regulate and steady two Porters, and asks whether  
this indicates that you will change two other Porters  
without change.

The real question is not whether you  
could successfully resist a demand on the part of the  
Italians or not, and if you could the Nations would  
in my opinion be imperative why you should not  
you cable to Colombo that two Arringtons will  
answer to collect the Porters suggests to me a  
compromise that would be the least that you  
could afford to do: that is to change two of them  
without expense to them.

There is one phase of the matter that I wish  
you would write me about. They say "Mr. Edison  
himself says that he has not paid the agreed  
half on the Porters, and that he refuses it, and  
"condemns the business, as imperfect & throws them  
"back on Porters. How is it then that Mr. Edison  
"does not heat us as well as he heats himself.

2 1883-01-20

"and that he allows us to pay his his full.  
 "on account of our confidence in Mr. Edison, while  
 "he himself does not pay for his own engines, and  
 "rejects them!" — I beg you to believe me that  
 all questions of right aside (for I do not know all  
 the facts,) it will cost you and all of us very  
 dear if the matter is not treated in such a way  
 as to leave them satisfied. — There is also  
 this; that it leaves a very nasty responsibility  
 on Columbus, who, wholly on his confidence in and  
 enthusiasm for you went ahead and made these  
 orders, and purely as a matter of confidence.

I suppose the Porters can be used in single  
 machine plants, or for isolated plants, so that  
 they could be utilized, and in any event could be sold  
 in the states where there is a market, with some  
 loss. I cannot represent to you too strongly  
 the advisability of doing as I urge,

Very sincerely yours,  
 J. D. Bailey

1883-01-22

Paris, le 22<sup>nd</sup> Jan<sup>r</sup> 1883  
33. Avenue de l'Opéra.

**COMPAGNIE CONTINENTALE EDISON**  
SOCIÉTÉ ANONYME  
Au Capital de 10 millions de Francs  
EXERCICES 1882-1883  
GRAND DIPLOME D'HONNEUR

*Edison*  
*6*

Thomas A. Edison Esq.  
New York.

Dear Sir,

Referring to your favor of Nov 21<sup>st</sup> regarding an account for Counsel fees amounting to \$44.25 we beg to inform you that we have today instructed Mr. Wallentin to pay you same amount.

We take this opportunity to enclose a translation of an article published by the Berliner Börsen Zeitung on the 23<sup>rd</sup> Dec<sup>r</sup>, please let us know what answer can be made in your name in such cases.

We are, Dear Sir,  
Yours very faithfully,

COMPAGNIE CONTINENTALE EDISON

*Edison*  
Administrateur délégué

1883-01-23.

*Alfred D. Sullivan*  
Général Diplômé  
de Commerce  
Paris

SOIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

Ivry-sur-Seine le 23<sup>e</sup> January 1883

G. A. Edison Esq<sup>r</sup>  
New York

My dear Edison,

Cable transfer Your cable of 20<sup>th</sup> inst. as follows received:

"My bill against adjourns. Wanting longest Bagmann bill waited absent  
and twelfth but send cable transfer for beauty capital both urgently needed funds"

I am notified today by the bank that they have called you  
yesterday & so on.

G. Dyrans

I believe I wrote you some time ago that there was considerable  
difference in the distance between the handle of the Arrington engine  
and that of Lorton. Of course my Arrington drawing had no engine  
on it but if I presumed there was one there, the shaft for the Dyrans  
which I have now got forged would be, I believe about 2 1/2" short so  
you see I dare not turn up the shafts, and consequently I am at a  
standstill on the arrangement. On the other part of the work for 2 of these  
Dyrans is well along but I cannot do much more with them until  
you send me a complete scale drawing of the Dyrans coupled with  
Arrington engine; I also cannot cast the brass until I can  
define this difference in shaft.

It is very important that I should have these quickly as the Socié  
Etique are concluding a contract for lighting the Grand Opera of

2

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1.500,000 Francs

Grand Diplôme

D'honneur  
PARIS 1881



Ivry-sur-Seine, le 23 January 1883

2

Lars and want to of them immediately; in fact I am afraid that we shall have to give the wire in the contract and, of course, for that I am perfectly at sea.

I wish you would send me an exact recipe for making the gold plating solution for the C Dynamos in order that I can mount a bath.

After please send me 2 of the Furterant boxes used for the large Dynamos and 2 of the Cylinder wires that you use; these I will send you an official order for.

Gare de Hading We have just arranged to furnish a plant of 1200 lamps to the station which is just being built; it is very much spread out and we shall use a large amount of tubing, all of which material except the lamps can easily be furnished from here.

Notes I must now commence to make orders and it would save me much trouble if you sent me a blueprint of each size you make, as it is much better that we keep that size perfectly uniform. I shall do nothing in this matter until I have these drawings as the delay in receiving some of the Dynamo drawings occasioned a slight difference in <sup>the two sets</sup> ~~some of these~~ which has caused me a great deal of trouble to rectify.

Bill I wish you would send to the Société Industrielle an accurate statement of everything you have delivered up to the end of year 1882, with amount of cash received, in order that we may get it straightened out

3

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

Grand Diplôme  
d'honneur  
PARIS 1881

Ivry-sur-Seine, le 23 January 1113

in our books so that our new bookkeepers can understand it, also, in future, send bills immediately, if not before the goods have been sent, and a letter of instructions as to the contents of each package; this is very important for us as we have sometimes to open every single case in a shipment because we have not the list & number of the packages.

Levers factory. I have just had a "pic-nic" with my mercury pump. I got a new order for the shaftings and he kindly entered the inside of the pump for me although well instructed about it; I do not need to tell you what trouble we had.

Levers glass. Our order for pump glass was for glass enough for 5000 pumps, you have only sent enough for 400 or 500; this I ought to have insisted on, as I cannot work with so few pumps and it is difficult to work 2 glasses at the same time. I wish you would hurry them up for me.

New material for sockets. Thanks for the samples and recipe, I will do some experimenting also on this.

*W. H. Pritchard*

Enclosure

Form No. 2

**CABLE MESSAGE.****THE WESTERN UNION TELEGRAPH COMPANY.**

All CABLE MESSAGES received for transmission must be written on the Message Blanks provided by this Company for that purpose, under and subject to the conditions printed thereon, and on the back hereof, which conditions have been agreed to by the sender of the following message.

THOMAS T. BICKERT, General Manager.

NORVIN GREEN, President.

NUMBER	SENT BY	RECEIVED BY	CHARGE
179	W. H. H.	26 Berlin	111

RECEIVED AT 854 BROADWAY.

Jan 21 1888

To Edison New York

In nichtigkeitsklage swans gegen  
 edisons hauptpatent glaegende  
 gessigt swan kostenpflichtig abgewiesen  
 unfer patent durch die grunde  
 unvergleichlich gestarkt  
 Edison

[FROM CHARLES BATCHELOR?]

Form No. 5.

**CABLE MESSAGE**

**THE WESTERN UNION TELEGRAPH COMPANY.**

All CABLE MESSAGES received for transmission must be written on the Message Slips provided by this Company for that purpose, under and subject to the conditions printed thereon, and on the back hereof, which conditions have been agreed to by the sender of the following message.

THOS. T. KICKNEY, General Manager.

NORVIN GREEN, President.

NO. <i>12</i>	SENT BY <i>Amos</i>	RECV'D BY <i>H. Paris</i>	CHARGE <i>805</i>
FILED AT 854 BROADWAY.			
Received at	<i>Edison</i>		
	<i>65 Fifth Ave</i>		
	<i>Jan 18 1888</i>		

To *Edison*  
*65 Fifth Ave*

*Decision first instance*  
*German ~~for~~ swan suit*  
*Your favor Edison*



1873-01-30

Mr. Edison,

I am in receipt of your letter to you asking you  
to send powers of attorney. Mr. Bailey's stenographer has just  
arrived from Paris, Mr. Lawson. He states that Bailey or some-  
body else has lost the powers which we sent over a year ago.

It is rather curious that Bailey loses so many papers which entail  
delay in giving us the founders shares. He has lost some papers  
which he took away from here last Autumn, which I swear I gave him.  
I have supplied those and made up the loss. Now he has lost  
these papers. There is something queer about the matter.

I will look into the powers of attorney asked for and  
then communicate with you again.

S. B. Eaton

Jan. 30th. 1873.

per Mr. A.

Form No. 1

1883-c2-62

## CABLE MESSAGE

### THE WESTERN UNION TELEGRAPH COMPANY.

All CABLE MESSAGES received for transmission must be written on the Message Blanks provided by this Company for that purpose, under and subject to the conditions printed thereon, and on the back hereof. When conditions have been agreed to by the sender of the following message.

THOS. T. ECKERT, General Manager.

HOSYD GREEN, President.

NUMBER	SENT BY	RECD BY	OFFICE
239	C. C. C.	C. C. C.	Paris
Received at <u>FILED AT 854 BROADWAY</u>			
Feb 1 1888			
To <u>Edison N.Y.</u>			

Just learned Malicious statements  
made insull wait letter will  
mail Monday before forming  
opinion or speaking about  
Bailey

1883-02-05

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ELECTRICITE

Grand Diplôme  
d'honneur  
PARIS 1881

Ivry-sur-Seine, le

Feb. 5 1883.

Mrs A Edison,

Enclosed letter from

label explains itself

Very truly yours  
Chas. F. Johnson

Philip Seubel

Ingenieur-Electricien  
de la Société Electrique Edison  
33 Avenue de l'Opéra

PARIS

1883-02-02  
Munich Febr. 2. 1883.

My dear Mr. Batchelor

I am in receipt of your favor of 23 inst. with enclosure. I return the latter with a postal card from the same writer which came into my possession, as the address indicates, through the hands of a third party. That I owe a small sum of money to my sister is a fact but when I left New York I did not know where she was & have never, since I am in Europe received any news from her. The postal card is the first indication to me that my sister is married and is certainly a queer way to inform me of such a fact as the card in itself has an insulting intent. I don't know the writer and never heard his name and cannot and will not pay any money to a stranger about whom I don't owe anything. If my sister will send her address in her own handwriting, I shall be glad to have an opportunity to dispose of the

[ENCLOSURE]

matter. I return the whole affair  
to you as I like to have it go  
back through the same channel through  
which it came. In justice to myself  
I wished to have the matter ex-  
plained to Mr. Edison.

Very truly yours

J. H. Schickel

Georgetown Str. 4.

Blank No. 3.

1883-02-08

No. *610* *W.*

**CABLE MESSAGE.**

*105*

**THE WESTERN UNION TELEGRAPH COMPANY.**

*1 Berlin*

All CABLE MESSAGES received for transmission must be written on the Message Blanks provided by this Company for that purpose, and subject to the conditions printed thereon, and on the back hereof, which conditions have been agreed to by the sender of the following message.

A. R. BREWSTER, Secretary.

NORVIN GREEN, President.

*Edison NY*  
*65 Fifth Ave.*

Received at **791 BROADWAY.**  
*Feb 3 1883*

*Proposals made City month or*  
*two before Decided*

*3*  
*1883*

*Bailey*

D. WALLERSTEIN  
ADDRESS LETTERS TO  
Box 2787.

34  
174 WILLIAM STREET.

1883-02-08

New York, Feb 7<sup>th</sup> 1883

J. Russell Esq. City  
D. Wallerstein

Dear Sir,

In reply to your favor of  
this day, would state that  
I received yesterday a Paris  
cable concerning an Italian  
credit, but do not quite  
understand it, as it is not  
clearly worded. I therefore  
cabled last night, and  
as soon as I have an answer  
I will let you know. —

Yours truly  
D. Wallerstein

1883-02-05

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme H.F.O.

D'Inventeur  
PARIS 1881

Ivry-sur-Seine. le  
Feb. 8 1883.

M. Edison Esq

New York.

My dear Edison,

There is a very serious fault in your No 1 and 2 machines which I presume you have remedied or now. I find nearly all of them have it. The cap that screws on the commutator to hold the bars tight projects over the end of the body of commutator - This will do us harm as long as the machine turns one way; but if it has to turn the opposite way & which the commutator cap screws up it will tend to uncover the cap against the bearing, every time the spring on end of shaft lets it touch the bearing -

I notice if we put one of your shafts in lathe to turn a commutator they are frightfully out of truth how is this?

Yours truly  
"Balch"

→ C. ...



1883-C2-11

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'honneur  
PARIS 1881

IVRY-sur-Seine, le  
5, RUE DU PAYS.

Feb. 11<sup>th</sup> 1883.

My dear Edison

Your shipment of  
Electrical material of Amélique Jan 15<sup>th</sup>  
an express same date also in Canada  
a week later have all been here some time  
now but we have not been able to get  
them as yet because you give us nothing  
to show what they contain - It is  
annoying to have a man a whole week  
trying to get a permit to unpack the  
cases to find out what they are -  
If you will have your people who pack  
do this it will save us an immense amount  
of trouble.

Mark every case C.B. 1, C.B. 2, C.B. 3, and  
so on then send me a letter saying what  
Case C.B. 1 contains etc and so

C.B. 2  
they satisfy the Custom house that they  
will find these things in the Cases; they  
probably open one and find it right and there  
is no delay at all.

Yours "Bach" -

1883-02-13  
February 18th.

Je Declare, que la Societe d'Appareillage Electri-  
que de Geneve et les Societes qui en dependent ont seuls le  
droit exclusif de la construction et de la vente des lampes et  
appareils de mon invention, destines a l'eclairage electrique  
pour la Suisse.

I declare, that the Societe d'Appareillage Elec-  
trique (Company for electric apparatus or Electric Co.) of Geneva  
and the companies dependent thereon have the sole and exclusive  
right of manufacturing and selling, lamps and apparatus of my  
invention, intended for electric illumination in Switzerland.

Sodden  
this signed  
13th Feb 1883

Form No. 2

**CABLE MESSAGE**

1883-02-13

**THE WESTERN UNION TELEGRAPH COMPANY.**

All CABLE MESSAGES received for transmission must be written on the Message Blanks provided by this Company for that purpose, under and subject to the conditions printed thereon, and on the back hereof, which conditions have been agreed to by the sender of the following message.

THOS. T. ECKERT, General Manager

NORVIN GREEN, President.

NUMBER	SENT BY	RECD BY	CHECK
419	By	7 Paris	
Received at		FILED AT 854 BROADWAY	Feb 13 1888
To Ekno side			
NY Thos A Edison			
65-5 Ave			
Did approve but scheme			
trusted			

Form No. 2

**CABLE MESSAGE**

1883-02-14

**THE WESTERN UNION TELEGRAPH COMPANY.**

All CABLE MESSAGES received for transmission must be written on the Message Blanks provided by this Company for that purpose, under and subject to the conditions printed thereon, and on the back hereof, which conditions have been agreed to by the sender of the following message.

THOS. T. ECKERT, General Manager

NORVIN GREEN, President.

NUMBER	SENT BY	RECD BY	CHECK
397	in h	17 Paris	STO
Received at		FILED AT 854 BROADWAY	By 14 1888
To Ekno side NY - Thos A Edison			
65 Fifth Ave NY			
Important have favorable answer			
our cable message today			
enforcing cash payment will			
best combination			

1853.02.14

Société d'Appareillage Électrique

Genève, le 14 February 1853.

Thomas A. Edison Esq.

65 Fifth Avenue New York

Dear Sir

We beg to confirm our letter of the 11th. I am sorry to hear that we received your Cable message to the Secretary's Secretary. He replied as follows:

We had instructed Felix by letter to pay against remittance. We have instructed Felix to pay you henceforth for all you send on delivery. We received your Bill of Lading and we hope that this arrangement will be satisfactory to you. But at the same time we must repeat our request, that you should reduce the price of the lamps to us, considering that you have 50% of our profits, besides that we have agents in London for the sale of your lamps all over Europe for three shillings and six pence and that from whom we had already received letters from that house in London offering the same at 6s. 6d. undoubtedly our right for the exclusive sale of the lamps in Switzerland can only be protected by

enabling us to sell at cheap as those  
English agents.

Warranty and order from 10000.  
I ought to only 5000 I ought at present  
of which please send  
2400 of S. Carole  
2800 of 16. to  
800 of 32 do

The Consulting engineer on the 20th of  
last December requesting you to buy him  
the models and drawings of magnet and  
motor. He had in mind to exhibit them at  
all other exhibitions for your system of  
lighting, but he had up to the present no  
mind of doing so.

It is to continue the discussion  
and should feel obliged if you would send  
all these things, although as published and  
by express. As to the balance will  
I pay for them.

Dear Sir  
Yours very truly

SOCIETY  
D'APPAREILLAGE ELECTRIQUE  
GENEVE  
LE DIRECTEUR

*Hervey*  
The consulting engineer

*Hervey*

1883  
12/12/83

1883-02-15

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

Grand Diplôme

à l'honneur  
PARIS 1881



*Copy*

Ivry-sur-Seine, le 15<sup>th</sup> 83

Liban

C<sup>ie</sup> Continentale Edison  
Paris

Your last letter brings us copy of a letter of C<sup>ie</sup> Edison, We are sorry to see that W<sup>o</sup> Edison comes back again on the question of the engines which we thought arranged by his dispatch of Jan, 30<sup>th</sup> communicated by you to us, and also by the declaration contained in your letters of Jan 31<sup>st</sup>, and 1<sup>st</sup> inst, which we have in hand, & on which we have opened you the new credit & remitted the funds asked by you. We are convinced that the whole business will be arranged in the most amiable way.

As soon as our Central Station will be increased (the 4000 lamps, which will be lighted by the 4 dynamos we have, are all engaged) & for next winter we will have to light the theatre of the Scala, needing itself alone 2 dynamos.

## SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital : 1,500,000 Francs

Grand Diplôme

d'honneur

PARIS 1881



Ivry-sur-Seine, le

2

We believe that we shall order 2 or 4 new dynamos and only 1 or 2 engines. By coupling one of the old Porter with an Arrington, thus the question will be solved.

We could perhaps sell 2 dynamos C to be worked alone & then there will be no difficulty to put on 1 of the old engines; difficulties arise only when it is question of working simultaneously several dynamos. On the other side there could be another resolution of the question, that is, to find a favourable opportunity to sell the old engines, this does not seem at all difficult in a country which, like ours, is rapidly increasing its industrial manufactures.

What we are saying now is for the purpose of showing that we do not at all pretend to have 2 new engines free of expense, but that we are actuated by the best of intentions to find an

1883-02-15

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital : 1,500,000 Francs

Grand Diplôme

d'honneur  
PARIS 1881



Ivry-sur-Seine, le

3

equitable way of saving as well your  
interests, as ours, for, Gentlemen, it is,  
also for your proper interests.  
If one station works badly, we shall  
not form a society, because the sale  
of a few isolated plants, will not  
warrant the forming of a share company  
with a capital of several millions & ~~substantly~~  
we are convinced that nobody either in  
Italy, or in any other part of ~~Italy~~ Europe  
would for a long time put up the money  
to form a Central Station of electricity.  
So it is necessary to work as perfectly as  
possible in the very beginning, this is  
the interest of Mr Edison himself, who will  
be able to sell a number of these large  
machines, if the one exhibited will have  
given a good result. Besides you may  
be sure that Mr Edison as well as the  
Compagnie Continentale, have real  
friends in us, friends who will always  
do their utmost, to save their interests.



1863-02-15

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital : 1,500,000 Francs

Grand Diplôme

D'Invention  
PARIS 1881

Ivry-sur-Seine, le

You may judge by the enormous sacrifice which we impose on ourselves, that we are not people to make difficulty about a few thousands francs, we only ask that we are put as quick as possible in good working condition. We see with pleasure that Mr Edison is sending the engines, reserving the question of settlements for future arrangements. You can write him that we agree with pleasure with him on this point.

We hope to hear very soon that the engines have been shipped, because we are in great need of them. We began a few days since to put up the dynamos, we will put up only 2 Porter engines & extract them the 2 Arriving ones.

The other works continue pretty well, though the season is not very favourable. Two thirds of the contract are placed & we wait for Mr Little of Babcock & Wilcox to begin the putting up of the two boilers.

1893-02-15

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital : 1,500,000 Francs

Grand Diplôme  
d'honneur  
PARIS 1881

Ivry-sur-Seine, le

5

arrived several weeks ago; we hope that  
we can invite you in about 2 months  
to the inauguration of our station.  
We believe that you will be  
astonished at the work done in so  
short a time

Yours Truly

Feb. 22. 83

Batchelor & Co.

Vertical text, likely a list or ledger entries, including names and numbers.

Vertical text on the right side of the page.

1883-02-19

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1.500.000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme 443

d'honneur

PARIS 1881

Ivry-sur-Seine, le  
5, RUE DU PARC.

Feb. 19 1883.

My dear Edison,

Enclosed please find  
check for \$4.10 - I have received  
4 drafts from Suibel for 250 Frs each.  
payable Jan, Feb, Mch, + last 8<sup>th</sup> each.  
Two of these are past due and I have  
collected 500 lochies I send you at 5.17.  
Please give Suibel credit for same

Yours truly

Charles Suibel

1 Enclosure

1883-02-20

1

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'Honneur  
PARIS 1881

Ivry-sur-Seine le 20<sup>e</sup> Février 1883  
5, RUE DU PARC.

M<sup>r</sup> A. Edison ?

65 5<sup>e</sup> Avenue  
New York

My dear Edison,

As regards Statement of Société Industrielle: I have, please give me the 1/2 provisions to this as you say with Chatelaine's that we shall then have it complete from the beginning.

As to I have asked the G<sup>o</sup>. Continentale to order one set of them to Antwerp; I presume they will do so.

As to I am glad to receive Edison's sketch; it will help me a great deal.

As to I received your letter of the 9<sup>th</sup> inst. regarding this and shall look over the correspondence and see what can be done.

As to I received Dyre's letter on these cases and have, as understood, telegraphed as follows:

Backward, New York, received:

this matter I shall attend to immediately.

Private Op Many thanks for statement of my 1/2 with you for last year which I shall look over when I get time.

As to I have just received a letter from him saying he leaves on the 21<sup>st</sup> inst.; I am glad of that, as we want new three C Dynamos very badly in Paris.

Yours very truly  
Chas. Bateketa

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1.500.000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

1889  
D'ÉLECTRICITÉ  
D'ÉLECTRICITÉ  
PARIS 1889

Ivry-sur-Seine, le

22 Feb. 1889

Messieurs —

My dear Edison,

In conformity with your letter of 8<sup>th</sup> Feb I have read your letter of 16 Jan and 2<sup>nd</sup> Feb. to the Société Electrique and also your cable to them in which you say you ship the Weston engine & have settlement for future adjustment — I have not seen the letter of yours to Bailey as he resides in Berlin — I have talked the matter over with Nau and am sure that if the business had been done through our Paris people there would have been no question at all about it — A letter from the Italian Co has been received (which I have translated and send you inclosed) from which you will see that they are disposed to settle the thing amicably — Of course you cannot be expected to suffer a loss whenever you find a new and better thing and I shall continually put this forward with our people until some satisfactory arrangement is reached

Very truly yours

Chas. Batchelor

1883-02-23

SOCIÉTÉ ÉLECTRIQUE EDISON  
SOCIÉTÉ ANONYME

Au Capital de 1 million de francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ  
Paris 1881  
GRAND DIPLOME D'HONNEUR

ADRESSE INTERNATIONALE  
EDISON, PARIS

*And  
get  
M...*

Paris, le 23<sup>rd</sup> Feb<sup>y</sup> 1883

33, Avenue de l'Opéra

Thomas A. Edison Esq.  
New York.

Dear Sir,

We beg to point out that you have shipped us lately some lamps where the numbers of volts were not marked; such lamps have been forwarded to Tutwiler and Blawie.

They only had a number ~~22180~~ 22180 which is evidently a number of manufacture.

The consequence has been that our engineers were unable to put in their installations lamps having the same numbers of volts, and great damage ensued.

You will oblige us by sending us always lamps with the volts marked on each lamp.

We have only received one copy of your bulletin N<sup>o</sup> 15; we would be happy to receive about 25 copies of it and a few more copies of N<sup>o</sup> 16 which has just reached us.

1883-02-23.

We enclose a copy of our Bulletin  
N° 3 which has just been issued. We  
forward 25 more copies per post.

We remain, Dear Sir,  
Yours very faithfully

SOCIÉTÉ ÉLECTRIQUE EDISON

*Edwin Rice*  
Administrateur délégué



1883-02-26

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital : 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ELECTRICITÉ

Grand Diplôme 482  
d'Honneur  
PARIS 1881

Ivry-sur-Seine, le  
26 Feb. 1883

M<sup>r</sup> A Edison &

New York

My dear Edison, Many thanks for statement of account as sent by Inaud - I find it quite correct and am perfectly satisfied; considering everything I think it is a very handsome year-

I have give me credit for \$23<sup>00</sup> paid to Brandon ~~Apr 19<sup>th</sup> 1882~~ for extension to Spanish Colonies of Sets 24 and 25 and mentioned in my letter of that date. receipted bill for which was enclosed in registered letter 17 Oct 1882 -

Also give me credit for \$62<sup>05</sup> cash, paid to Brandon for ~~Set 30~~ which you ordered me to take for you in France alone; Brandon's receipt for this was enclosed in registered letter of 17 Oct 1882 -

Also make me a debtor to \$11<sup>55</sup> money that I claimed from Brandon as I found that the extension of 18 l. to the Spanish Colonies Sept 19<sup>th</sup> 1881 had been paid for by Mr. Serrel as well as myself.

This make balance Jan 31<sup>st</sup> in my favor \$2404.32

Yours truly

Chas B. Batchelder

1873-02-26

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'honneur  
PARIS 1881

Ivry-sur-Seine, le

26. Feb. 1883.

M. A. Edison & Co. New York.

My dear Edison,

I confirm my cables as

follows:

Feb 20. "Okinide New York received"

24. "Okinide New York. Ask. Dyer"

from you

Feb 23. "Received what"

I asked you in my letter of Jan 4. to pay  
Mr Cunningham \$300. I do not notice this  
payment in your bill. so please make the  
payment \$500 instead

Very truly yours

Edo. Bachelet

1883-02-26

Société d'Appareillage Electrique.

Genève, le 26 Février 1883

Thomas D. Edison Esq<sup>re</sup>  
65. Fifth Avenue  
New York.

Dear Sir

We beg to confirm  
our letter of the 14<sup>th</sup> inst. and  
inform you that our cable address is  
correctly

Cherbourg.

Petitet

Genève

We are waiting for your next card  
Dear Sir  
Yours very truly

SOCIÉTÉ  
D'APPAREILLAGE ÉLECTRIQUE  
GENÈVE  
LE DIRECTEUR

*Hubert*

RECEIVED  
FEB 27 1883

Office of A. SEELIN & CO.,  
43 Wall Street.

34 1883-02-27.

P. O. Box 90.

New York, Feb 27 1883

Thomas A. Cairns Esq

Dear Sir

A credit has been  
opened with us in favor  
of the Societe d'Appareillage  
Electrique, but we are  
doubtful not to make any  
payments except on orders  
from said Co. The banker's  
letter opening the credit,  
reached us yesterday as soon  
as we receive instructions from  
the Co as to the payments to  
be made under it we will

advise you.

Very Res

A. Seelin

OFFICE OF A. INELIN & CO.,

1883-62-28

48 WALL STREET,

P. O. Box 910.

New York, July 28 1883

Thomas A. Edison Esq  
65 West Avenue

Dear Sir  
We are today in receipt of a  
telegram from Geneva Switzerland requesting  
us to hold, at your disposal, for account  
of the "Societe d'Appareillages Electriques  
de Geneve" the sum of  
\$7,500 - seventy five hundred dollars  
up to which amount we will  
therefore pay your bills against and to,

Yours very truly  
A. Inelin

Blank No. 2.

1883-03-c 2

No. *6004* CABLE MESSAGE.

*947*

**THE WESTERN UNION TELEGRAPH COMPANY.**

ALL CABLE MESSAGES received for transmission must be written on the Message Blanks provided by this Company for that purpose, under and subject to the conditions printed thereon, and on the back hereof, which conditions have been agreed to by the sender of the following message.

Check. *to Berlin*

A. H. BREWSTER, Secretary.

NORVIN GREEN, President.

Received at *New York* *March 3* *1883*

*Ednoside ny*  
*Thos A Edison 65-048*

*Private Can Lamp Price Be*  
*Lowered in quantities for Germany*  
*instead making factory*  
*forty cents lowest if ordered*  
*large quantities, recently improved*  
*life and cost more than put poor policy start*  
*factory as we shall in year or so. So very much cheaper.*  
*Edison*



[FROM GEORGE W. SHERMAN?]

1883-03-05

Form No. 3.

### CABLE MESSAGE

### THE WESTERN UNION TELEGRAPH COMPANY.

All CABLE MESSAGES received for transmission must be written on the Message Blanks provided by this Company for that purpose, under and subject to the conditions printed thereon, and on the back hereof, which conditions have been agreed to by the sender of the following message.

THOMAS W. SHERMAN, General Manager.

NORVIN GREEN, President.

Sent by Edison at 6:00 PM on March 5 1883  
 Received at Edison New York Nicks 1883  
 To Germany Warren

601 Ave  
 Have received grant for the whole  
 city. have founded plot of ground  
 can rent for about 2000 yearly.



1883-03-10

C<sup>te</sup> CONTINENTALE EDISON  
SOCIÉTÉ ANONYME  
Au Capital de 1 million de francs  
—  
EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ  
Paris 1881  
—  
GRAND DIPLOME D'HONNEUR  
—  
ADRESSE TÉLÉGRAPHIQUE  
EDISON, PARIS

Paris, le 10 March 1883.  
37, Avenue de l'Opéra

Thomas A. Edison Esq  
New York.

Dear Sir,

We have duly received your favor of 6<sup>th</sup> February and we thank you for the information you kindly give us on the falsehood of the statement which had been made in the Berliner Borsen Zeitung of 23<sup>rd</sup> Dec<sup>r</sup>.

Please send to our order in two copies:

1 meter of each size  
and oblige.

Yours truly,  
COMPAGNIE CONTINENTALE EDISON

*Edison*  
Administrateur délégué

We enclose the translation of a letter we have received from the Italian Committee, and which seems to bring their claim about the Edison Engines to a conclusion.

[ENCLOSURE]

[FEBRUARY 15, 1883]

Your last letter brings us copy of a letter of a letter of Mr. Edison; we are sorry to see that Mr. Edison comes back again on the question of the engines which we believed arranged by his dispatch of Jan'y 30<sup>th</sup>, communicated by you to us and also by the declaration contained in your letter Jan'y 31<sup>st</sup> first inst. which we have in hand and on which we have given you the new credit and remitted the funds asked by you, we are convinced that the whole business will be arranged in the most amicable way. At even as our Central Station will have a first invoice of the 1100 lamps which will be lighted by the 4 dynamos we have are all engaged to for next winter we will have to light the theatre of the scale needing itself alone 2 dynamos " we believe that we will order 2 or 4 new dynamos & only 1 or 2 engines in one spring of the old Plant with an Arrangement the question will be resolved. We could perhaps also sell 1 Eng. to be worked alone & then there will be no difficulty to put on it 1 of the old engines difficulties arising only when it is question to work simultaneous several dynamos. On the other side there could be also another resolution taken, that is to find a favorable opportunity to sell the old engines which does not seem at all difficult in a country which as ours is on the way to form its industrial material. All what we are saying now is for the purpose to show that we do not at all pretend to have 2 new engines free of charge, but that we are penetrated of the best intentions to find an equitable way to save as well your interest as ours, for lastness, it is also for your proper interest. If our station works badly, we will not form a society because for the sale of several isolated plants, it is not possible to form a C<sup>y</sup> with a capital of several millions & we are ready to say nobody, neither in Italy nor in any other part of Europe would, for a long time, furnish money, to form a Central Station of Electricity. So it is necessary to work as well as possible in the very

beginning this is the interest of Mr. Edison himself, who will be able to sell several of these large machines if the first exhibited will have given a good result, besides you may be sure that as well Mr. Edison as the E. & C. have real friends with us, friends who will always do their possible to save the interest.

Besides you may judge by the enormous sacrifices which we impose on ourselves that we are not prepared to make difficulties about a few 4000 fr., we only ask to be paid as quick as possible in the situation to work.

Also we are with pleasure that Mr. Edison is sending the engines receiving the question of settlement for future arrangements. We can write him that we agree with pleasure with him on this point.

We hope to hear very soon that the engine has been shipped because we are in great need of them. We began since a few days to put up the dynamos, we will put up only 2 boiler engines & expect this of the 3 Equipments. The other work continues pretty well though the season is not very favorable. 2 thirds of the conductors are placed & we wait for Mr. Lill of the E. Babcock & Wilcox to begin the putting up of the 2 boilers arrived since several weeks, so we hope that we can invite you in about 2 months to the inauguration of our Station. We believe that you will be astonished of the work done in so short a time.

From the Comitato Italiano per le  
Applicazioni del Sistema Edison.

No. 1.

L. B. Eaton Copy

AA

## Memorandum of Agreement

entered in to this day between

1. The firm Messrs Siemens & Halske of Berlin on the one part, and
  2. Mr. Thomas Alva Edison of New-York, represented by his duly authorized attorney Mr. Joshua F. Bailey of Paris, at present residing here,
  3. The Edison Electric Light Compagnie of Europe Limited of New-York, represented by the aforesaid Mr. Joshua F. Bailey,
  4. The Joint Stock-Company, Compagnie Continentale Edison of Paris, also represented by the aforesaid Mr. J. F. Bailey,
  5. The Banking-House Gebrüder Sulzbach (Sulzbach Brothers) of Frankfort on the Maine,
  6. The Banking-House Jacob Landau of Berlin,
  7. The Joint Stock-Company, „National-Bank für Deutschland“ (National-Bank for Germany), of Berlin,
- on the other part.

### Art. 1.

Mr. Thomas Alva Edison, and the Edison Electric Light-Company of New-York Limited, as proprietors of the patent-rights of the former, have, pursuant to a contract transferred

to the Joint Stock-Company „Compagnie Continentale Edison,“ domiciled in Paris, the right fully to exploit the patent-rights already and still to be granted to Mr. Edison, in the province of the measurement, distribution and application of the electric current, as also of the electric lighting and production (engendering) of energy, for the Empire of Germany.

With the consent of Mr. Thomas Alva Edison and the Edison Electric Light-Company of Europe Limited, the Compagnie Continentale Edison of Paris, has entered in to a further contract with the said banking-houses Sulzbach Brothers, Jacob Landau and the National-Bank for Germany, pursuant to which, the systematic exploitation of the above mentioned patent rights, within the territory of the German Empire, shall be transferred to a Joint Stock-Company to be called into existence and duly entered on the Trade-Register by the three Banking-Houses aforesaid.

In the interpretation of these presents the following words and expressions shall have the following meaning. „The Light-Company“ means the „Edison Electric Light-Company Limited of New - York“. — „The Continentale“ means the „Compagnie Continentale Edison“ of Paris; „The Consortium“ or Syndicate, means and includes the whole of the aforementioned German banks enumerated as 5, 6 and 7. Said Consortium, together with the Joint Stock-Company to be established by it, to whom Mr. Edison and the Edison Electric Light-Company have pursuant to the foregoing, at the present time transferred, or at a future time will transfer the exclusive right to exploit their German patent - rights, shall be comprised and understood by the collective denomination and style of „Mr. Edison's assigns.“

## Art. 2.

So much having been said by way of preamble, the contracting parties being persuaded, that the propagation of electric lighting would be most effectually promoted by the aid of companies having large capital at their command to be exclusively devoted to said enterprise, conjointly with the industrial establishments appointed to manufacture the technical working material, have, with the view of protecting both the public and their own mutual interest, agreed as follows.

## Art. 3.

Messrs. Siemens & Halske engage during the period that this contract shall be in force, not to attack or oppose the patents for incandescent electric light granted to Mr. Edison, or the Light Company for the German Empire, either by a suit for annulment, or otherwise, but on the contrary to co-operate as far as possible, in seeing said patents maintained and upheld in their essential parts and universally duly observed with regard to their lawful effect.

On the other hand, Mr. Edison, the Light Company, the Continentale and the Consortium hereby grant to Messrs. Siemens & Halske (during the term of these presents) the unrestricted right for the German Empire to manufacture, to have manufactured and to introduce into the trade and sell the articles of invention protected by the aforesaid incandescent-light patents in the German Empire. The contracting parties 2 to 7 accordingly renounce both for themselves and their successors, the right by themselves or by their agents or other representatives to lay any impediment, be it by recourse to law or any other way whatsoever, in

the aforesaid exploitation of the incandescent light patents on the part of Messrs. Siemens & Halske, while the latter in consideration of the aforesaid rights as also for further herein aforementioned advantages thus granted, engage as defined in Articles 4 and 6 to pay to the former a royalty,

- a) — on the application of incandescent-lamps and accessory parts thereto for lighting,
- b) — on the sale of such lamps.

The legal effects of non-German Patents of Mr. Edison and the Light Company shall not be affected by these presents.

#### Art. 4.

On the strength of their aforesaid patents Mr. Edison and his assigns claim the right to make every incandescent lamp-lighting within the territory of the German Empire, dependent upon their permission, and consequently only to grant such right upon receipt of a royalty to be paid to them. Messrs. Siemens & Halske engage to pay such a royalty to Mr. Edison or to his duly appointed assign for the time being, on every incandescent lighting which they themselves may carry out within the territory of the German Empire, or cause to be executed by their agents or workmen.

Said royalty shall be paid for every horse power actually consumed in the incandescent lamps equal to 75 Kilogrammeter per second. The amount of horse power thus consumed in the lamps shall be determined according to the system of electric measurement, the contracting parties reserving to themselves the right for the future to arrive at the simplest and safest manner possible of collecting this due. The royalty to be so levied on the first fifty horse power to be calculated

*Said royalty is  
paid by instalments  
of leaving this  
out against the  
Royalty.*

in any installation, shall amount to 25 Marks per horse power and 32 Marks for every further horse power. On extraordinary installations of a temporary nature however, no such royalty shall be paid.

*See my  
note p. 6.*

In installations for mixed lighting (i. e. incandescent and arc light) the above fixed royalty shall only be paid for horse power actually employed for the incandescent light contained in such combination.

Messrs. Siemens & Halske shall not however pay any royalty on current producing machines sold by them, where they do not themselves execute the installations or have them executed by their agents or workmen. On the other hand they engage to inform the purchasers of such machines by written document that these machines may be used for incandescent light in Germany only upon fulfilment of above conditions (prepayment of the royalty of 25 or 32 Marks), at the same time pointing out that an extension of utilisation shall only be admissible upon coming to an arrangement with Mr. Edison and his assigns. Messrs. Siemens & Halske will furnish Mr. Edison and his assigns every month with a list of the dynamo machines sold by them, for employment in Germany and available for incandescent lighting together with a specification of their manufacturing numbers the name of purchaser and the sort of machine and royalty paid thereon, and, on the other hand, in consideration of Art. 18, receive a similar list on the part of Mr. Edison and his assigns, giving a specification of the dynamo machines sold for use in Germany by them and their holders of licences. Messrs. Siemens & Halske furthermore engage to assist Mr. Edison and his

assigns to the best of their ability in the collection of such royalties.

Mr. Edison and his assigns engage not to allow to any third parties the use of current producing machines for incandescent lighting in Germany upon more favourable terms than those herein granted to Messrs Siemens & Halske. The percentage allotted to Messrs Siemens & Halske on such licences ceded to third parties are defined in Article 13. In like manner Mr. Edison and his assigns, as also Messrs Siemens & Halske, engage, as far as Germany is concerned, in dealing with buyers, who are neither holders of Edison licences in or for Germany, nor work their installations with machines of the Edison Companies or of Messrs Siemens & Halske, not to sell the lamps below the highest published price-current rates without any discount whatsoever thereon.

## Art. 5.

Messrs. Siemens & Halske during the period of these presents, forego the right to engage in, or carry on, on their own account, permanent works for the professed purpose of supplying light against the payment of consumption of light. This renunciation shall distinctly comprise every installation from which anybody can have light, but shall not affect the working of such installations, in which the ownership of such installations shall pass over to the light consumer within a period of not more than 6 years, even were it possible to consider them up to the time of their transfer as light-furnishing establishments, nor shall it moreover apply to the working of such installations intended only to serve purposes for temporary lighting, as provided for in Article 4 of these presents.

*Mr. Edison (incl. 21) that they acc. restrict Siemens as to Central Stations, see also p. 10. infra p. 19.*

## Art. 6.

Messrs. Siemens & Halske, (duly recognizing Mr. Edison's meritorious services in the invention and execution of the incandescent lamp), engage to pay to Mr. Edison, or to his duly appointed successor in respect of the patent rights, a royalty on every incandescent lamp, which they (Messrs. Siemens & Halske) shall use or sell for purposes of use within the German Empire, to the exclusion, however, of all such lamps as they shall procure from Mr. Edison or his successors, and exclusive moreover of those, which they use within their own manufacturing and business premises. All lamps manufactured by Messrs. Siemens & Halske and subject to said royalty, shall receive a distinguishing manufacturing mark. A similar distinguishing mark shall also be made on the part of the future German Edison Company on all lamps introduced into the trade by them in Germany.

The royalty shall, independent of the light power of the lamps, be fixed at 3 1/2 per cent. (say thirty three and one third per cent.) of the cost price for the time being, at which the lamps are manufactured in the factory of the Light Company of New York, or any such factory from which the future German Edison Company shall procure the greater part of its lamps, Mr. Edison or his assigns engaging every half year, on making up their books, to inform Messrs. Siemens & Halske of the ruling price. The royalty per lamp however shall not exceed the amount of 50 Pf. (say fifty Pennings).

*See Art. 44, SS.*

The minimum price at which Mr. Edison or his assigns may sell the incandescent lamps in Germany, shall be the

New York Light Company's cost price for the time being of the lamp, or that of the factory from which the future German Edison Company shall purchase the majority of its lamps, plus an advance or profit of 33 1/3 per cent, also when and where the discount is allowed. The lower price limit so fixed shall likewise be binding upon Messrs. Siemens & Halske.

Art. 7.

This royalty (Art. 6) shall not be paid on all lamps which Messrs. Siemens & Halske may procure from Mr. Edison, his assigns, or the German Joint Stock Company about to be formed (Art. 1).

On the contrary, in business transactions between them and Messrs. Siemens & Halske, the following privileged sale prices shall be accorded to the latter, in consideration of theirs i. e. Messrs. Siemens & Halske's counter-services as provided for in these presents, without prejudice to any future agreement with regard to further advantages of this description:

- a. On incandescent lamps up to 16 Candle power, Messrs. Siemens & Halske shall enjoy a discount of 25 % (Twentyfive per cent.) on the prices current and under all circumstances, however, a discount affording them an advantage of at least 10 % (Ten per cent.) on the price current rate over that allowed to any other German customer.
- b. Should the price-current rate of the afore mentioned lamps, for Germany, delivered in Berlin be fixed at less than 4 Marks Messrs. Siemens & Halske

shall have the lamp at a figure, which shall at least be five per cent. lower than that allowed to any other German customer. Should the price so fixed amount to more than four Marks or more each, as mentioned sub. a. per lamp, Messrs. Siemens & Halske shall be entitled to demand their supply at this latter price.

- c. On lamps of more than 16 candle power Messrs. Siemens & Halske shall receive a discount on the price current rate, giving them an advantage over that allowed to any other German Customer of at least five per cent. on the price-current rate.

Messrs. Siemens & Halske shall be at liberty, subject to due observation of the lower price limit, drawn in Art. 6 at he end, to sell lamps manufactured by themselves or procured elsewhere at whatever price they please, whereas they shall not sell lamps procured from Mr. Edison or his assigns — i. e. without payment of a royalty — below the Edison price-current rate, nor sell the same at a higher rate of discount than that allowed thereon to third parties.

Mr. Edison and his assigns shall keep Messrs. Siemens & Halske duly informed from time to time of their price current and discount rates, as also of any alterations of said prices and discount rates.

An arrangement with regard to the mutual uniformity of the selling prices of both afore mentioned lamps is by the bye reserved and taken into distinct consideration.

The prices charged by Mr. Edison or his assigns for lamps, when the latter are used for installations for the supply of light to various consumers, upon payment of such

(2)  
See my  
note p. 6.



consumption of light, and which prices may not fall below the cost price for the time being, plus an advance or profit of 3 3/4 per cent. (Art. 6 at the end) shall not be taken into consideration in determining the preference prices to be allowed to Messrs. Siemens & Halske.

Art. 8.

Mr. Edison and the contracting parties sub 3 to 7 in consideration of the counter-services of Messrs. Siemens & Halske as provided for in these presents renounce in favour of Messrs. Siemens & Halske, for themselves and all their assigns, in the exploitation of the Edison patents, the right to manufacture machines, apparatus and materials employed in their installations in Germany for electric light lighting except the following:

- a. Incandescent lamps,
- b. Sockets,
- c. Safety catches,
- d. Commutators,
- e. All such articles which Messrs. Siemens & Halske themselves after having purchased, would dispose of again without any operation of fabrication such as: uncovered wire, porcelain insulators, etc.
- f. Steam engines or other motors, boilers and appliances for motive power.
- g. Chandeliers and fixtures for lamps.

Mr. Edison or his assigns shall not be bound in the acquirement and manufacture of their stock of articles to the categories a) to g). On the other hand, out of the same con-

sideration as aforesaid ~~siemens~~ they engage to have all such other articles, mentioned under 1-4 inclusive, with exclusively manufactured by, and to procure them from Messrs. Siemens & Halske subject to the following terms and conditions:

1. Current producing machines (dynamoes) of the Edison type, which Messrs. Siemens & Halske have to manufacture and deliver at prices, which for machines, without packing, delivered free at the place of installation in Berlin intended for installation in Berlin, and in the case of other machines, including packing and delivered free at any railway station of Berlin, shall not exceed the export prices at which the Société Industrielle et Commerciale Edison of Paris shall deliver the corresponding types at the time being, delivered free at a Paris railway station including packing. For any orders executed within the first manufacturing year, which shall be calculated from the date at which the obligation of Messrs. Siemens & Halske to manufacture, shall begin, and orders have actually been received, the price however charged by Messrs. Siemens & Halske may exceed the above mentioned Paris price by five per cent.
2. The delivery prices of Messrs. Siemens & Halske for conductors of Edison special construction junction boxes, T pieces, as also of all other articles not specially enumerated here, belonging to the Edison conducting system, shall, inclusive of packing and delivered free at a Berlin railway station, or unpacked delivered at any other place in Berlin free of delivery at the place of installation, not exceed the prices

charged by the Société Industrielle et Commerciale Edison of Paris, for the same objects inclusive of packing and delivery free at a Paris railway station.

A modification of the prices agreed upon and may be demanded on the part of Messrs. Siemens & Halske, should it turn out that at the above mentioned Paris prices they no longer make a profit of 20 pCt. (twenty per cent.) beyond their own total cost price of manufacture including price of material, wages and other reasonable general costs; — on the part of Mr. Edison and his assigns, should it prove that the above prices exceed Messrs. Siemens & Halske's own cost price as afore specified by more than 30 pCt. (thirty per cent).

In the event of an arrangement not being come to about such a modification as to the reason or the amount thereof, three arbitrators shall fix the price within the above specified limits Messrs. Siemens & Halske's own cost price plus 20 per cent or 30 per cent respectively with binding force on all parties, and if necessary by a majority of votes. Each of the two contending parties shall appoint an arbitrator and shall notify the name of the person so elected to the opposite party by means of a registered letter. The third arbitrator shall, upon the motion of one of the said parties, be appointed by the College of Elders of the Berlin Merchants Corporation, or by the Presidency of the Royal District Court of Berlin I. Should one of the parties fail to nominate an arbitrator, within a fortnight after the receipt of the summons in writing issued in respect thereof by the other party, such right of nomination shall also pass over to the aforesaid College of Elders of the Berlin Merchants Corporation, or the Presidency of the Royal District Court of Berlin I. The arbitrators shall at the same time decide upon, who shall bear, and in what proportion, the costs of

such process of valuation. Their assessment shall apply to all orders which shall have been given and accepted subsequent to the notification of a motion for a modification of price, subject to the proviso of the latter in as far as the arbitrators do not fix the period of limitation at a later date.

3. The delivery price for Messrs. Siemens & Halske for cable for incandescent and arc light, being a special construction of this firm, shall be charged, delivered at the factory, exclusive of packing, at a discount exceeding that allowed to any other German buyer at the time being by five per cent.

4. Mr. Edison and his assigns shall likewise preferably purchase from Messrs. Siemens & Halske all wires for inside installations, so far and so long as said firm shall supply said articles upon the same terms and in particular of an equal quality and within similar periods of delivery at the same, or at lower prices, than those at which they can be procured and delivered at Berlin from any other manufacturer.

Under no circumstances whatever shall the prices to be charged by Messrs. Siemens & Halske to Mr. Edison and his assigns for articles enumerated in No. 1, 2 and 4 exceed the prices charged to third parties for the same articles during the same period of calculation.

The engagement on the part of Messrs. Siemens & Halske to deliver machines &c. subject to the foregoing conditions shall take effect six months from the date of signing this contract. The engagement on the part of Mr. Edison and his assigns to give their orders to Messrs. Siemens & Halske in accordance with these presents shall on the other hand

take effect from such date at which Messrs. Siemens & Halske declare themselves prepared to execute such orders. Such orders shall be delivered within three months after receipt of a written order except where a shorter term of delivery is stipulated in accordance with No. 4.

A reasonable extension of the time for delivery shall be allowed for every first supply according to a new model.

Mr. Edison and his assigns shall be entitled to manufacture, or cause to be manufactured, the dynamo machines for use in Germany in their own factories, or in those of a non-German Edison Company. Whenever Messrs. Siemens & Halske state their unwillingness in future to continue executing orders. In doing so, Messrs. Siemens & Halske shall be bound to give a notice to this effect of not less than six months.

In the event of Messrs. Siemens & Halske giving such notice, Mr. Edison and his assigns, desiring to recognize the merits of Dr. Werner Siemens and of his firm in the invention and carrying out of the dynamo-electric machine, engage — while this contract is in force — to pay a royalty to Messrs. Siemens & Halske on every such machine made in their own (i. e. the Edison) workshops. This royalty shall be fixed at five per cent. on such price as actually was last paid to Messrs. Siemens & Halske for a dynamo machine of the respective type, or what, in the case of new types would have to be paid in accordance with the foregoing (see No. 1 &c.).

In as far as, apart from the case of the general notice afore mentioned to dissolve their supply engagement, Messrs. Siemens & Halske should declare themselves incapable of wholly or partially carrying out within the time appointed above specified for delivery, an order given to satisfy a demonstrable requirement, Mr. Edison and his assigns shall be at liberty

to execute this part of the order so declined or any portion thereof not executed by Messrs. Siemens & Halske in the workshops of the Edison Company or elsewhere in Germany. Mr. Edison and his assigns shall however remain bound to give Messrs. Siemens & Halske the first offer in the case of further new orders.

In the cases above referred to, the royalty of five per cent. shall lapse on such machines, in respect of which proof can be adduced, that they might actually have been used prior to the date of their delivery, or before they ought to have been delivered by the party ordering them.

The foregoing arrangements made in respect of obligations of delivery, and notice of dissolving the same, as also the times of delivery together with the right of self manufacture in their own workshops shall in like manner apply to the articles enumerated in clause 2 of this Article. The royalty of five per cent., as stipulated for dynamo machines, shall not however come within the limits of these provisions.

Mr. Edison and his assigns will, in the disposition of their orders, as far as shall be practicable with their commercial convenience, pay due regard to the facilitation and continuity of Messrs. Siemens & Halske's manufacturing.

Messrs. Siemens & Halske, will, in accordance with their established custom, affix the name of their firm to all machinery and apparatus made, in pursuance of these presents and in so far as such are manufactured according to an Edison special construction affix along with it, a further stamp indicating such Edison quality therein, which shall appear in a similar way to the above mentioned reference to the firm of Siemens & Halske.

See p. 5. Article 7  
See Note of Reich No.

## Art. 9.

Such machines, apparatus and materials as are not included in the exceptions provided for in Art. 8, clause a) to g), being the special construction of Messrs. Siemens & Halske, and applied on the part of Mr. Edison or his assigns for the installation of incandescent light, within the German Empire, shall be supplied unpacked to Mr. Edison or his assigns at a discount of  $15 \frac{1}{2}$ % (fifteen per cent.), below such price or prices, at which Messrs. Siemens & Halske supply such articles unpacked delivered in Berlin in accordance with their current price list for the time being. Under all circumstances, the discount thus allowed by Messrs. Siemens & Halske, to Mr. Edison, or his assigns must give the latter an advantage of not less than  $5 \frac{1}{2}$ % (five per cent.) on the current prices for the time being over every other purchaser of such articles for use in Germany.

The foregoing compact as to discount shall not apply to coals for arc-light lamps, which said coals Messrs. Siemens & Halske shall be bound upon demand to supply to Mr. Edison and his assigns. Mr. Edison and his assigns shall not be obliged to procure their stock of said coals from Messrs. Siemens & Halske.

## Art. 10.

Both contracting parties and their assigns, will, as in the case of the incandescent lamps (Art. 7) endeavour also with regard to the dynamo machine and other articles employed for incandescent lighting, to come to an understanding from time to time as to their respective mutual selling prices.

In so far such arrangement shall not be attained, each party shall as a matter of course, within the limits of the foregoing special stipulations, be entitled to fix its own price.

Each party however mutually engages, in the case of such articles as are the special construction of the other party, not to underbid the price-current for the time being of the latter, either in general, or by the allowance of greater discounts, larger commissions &c.

Whether the said price current rates mentioned in the foregoing Article are to be considered inclusive or exclusive of the royalties (Art. 4) shall depend upon the declaration given at the time being, on the part of the Contracting party whose special construction is in question when communicating the price current rates.

## Art. 11.

Mr. Edison and his assigns, in consideration of Messrs. Siemens & Halske's counter services as provided for by these presents forego the right for Germany to exploit in arc-light lighting, any other system than that of Messrs. Siemens & Halske, or a system invented by Mr. Edison himself, and furthermore engage to purchase their supplies for installations of arc light from no other source than Messrs. Siemens & Halske without prejudice to the exceptions specified in Article 8 of these presents. Coals alone shall not be included in this arrangement. (Art. 9 at the end.)

Messrs. Siemens & Halske engage to allow Mr. Edison or his assigns on all materials entering into such arc light installations within the German Empire a discount of at least  $12 \frac{1}{2}$ % (twelve and one half per cent.) on the rates of their

prices current for the time being, in so far as where higher discounts have not been agreed upon in these presents on conducting-articles used in both systems of lighting. They (Messrs. Siemens & Halske) furthermore engage that said discounts, shall under all circumstances, exceed that which they allow to any other buyer of such articles for use in Germany, at the same period, by at least  $2\frac{1}{2}\%$  (two and one half per cent.), on the price current rates.

Messrs. Siemens & Halske shall moreover also in exploitations in Germany of an arc-light system invented by Mr. Edison himself, enjoy a preference, as regards the supply of the requisite articles thereto, without prejudice to the exceptions specified in Article 8 of these presents in such manner, that such orders for articles must be given to them, in as far as they will supply the requisite machines, apparatus and materials of a like quality, upon the same conditions, as have above been agreed upon (art. 8 and 9) for the supply of machines, apparatus and materials for incandescent light, and where they (Messrs. Siemens & Halske) declare themselves generally prepared to undertake such supply.

Any invention which the future German Edison Company shall itself invent or acquire shall be deemed equivalent to such invented by Mr. Edison himself in respect of arc-light system, provided that such invention may be considered as a material technical or industrial advance. In case of any dispute herein the decision shall rest with Mr. Edison.

With regard to the installation of arc light for ships of the Imperial German Navy. Mr. Edison and his assigns forego the same entirely in favour of Messrs. Siemens & Halske.

## Art. 12.

Both of the contracting parties agree that the agents and representatives appointed by them, may be employed by either party, in doing which, they mutually impose upon each other the following restriction, viz. that neither of them will pay to such agent, a higher commission on articles forming a speciality of the other party, than such agents would receive from the other party himself.

## Art. 13.

Mr. Edison and his assigns engage, in view of the German Imperial Patents (compare Art. 17) comprised in these presents, to issue to no one else licences, affording such third person advantages exceeding those granted by virtue of these presents to Messrs. Siemens & Halske.

Mr. Edison and his assigns will, in particular, in no case charge third persons a lower royalty, or grant to them more favourable selling prices.

Mr. Edison and his assigns engage, in consideration of this arrangement to pay to Messrs. Siemens & Halske 20% (twenty per cent.) pro rata on the receipts or sum total, which he and his assigns may realize on grants to other parties of licences for the application and exploitation of the Edison incandescent light patents.)<sup>\*</sup>

## Art. 14.

The patent licences granted by virtue of these presents, shall not be transferable to third persons, without the consent of the original grantor of such licence. Any alteration

\* B. writes (Mach 20.) that this is not correct translation. He says the royalty "applies only to licences granted for manufacture."

of person in the proprietorship of firms, shall have no influence on the rights and duties proceeding from these presents.

Art. 15.

Monthly accounts shall be rendered of all supplies furnished, or services respectively rendered by the contracting parties to one another. The entries or booking of all supplies or services shall validate per date. The settlement in Cash of the balance in capital shall take place in the course of the following month. The rate of interest to be charged either way by account current shall be  $4\%$  (four per cent.).

Art. 16.

Both contracting parties shall be obliged to furnish their agents and representatives with instructions in accordance with these presents.

Art. 17.

These presents shall immediately apply to all German Imperial patents in respect of incandescent lighting, which the German Edison Company about to be formed, shall acquire by virtue of its contracts with Mr. Edison, the Light Company and the Continentale, whether at present, or at any future time for exploitation — whether it be in the form of a transfer of the patent right itself, or in the form of a licence — or such patents, which the German Edison Company, shall itself independently apply for and procure, or acquire by way of transfer of patents or issue of licences.

On the other hand, Messrs Siemens & Halske will give Mr. Edison and his assigns the benefit of their present and future German patents in respect of incandescent light lighting, as long as such exist, by the supply of the articles protected by such patents upon the conditions fixed in Art. 9, as also by allowing the latter to apply their patented inventions to such articles respecting the manufacture whereof they, i. e. Messrs Siemens & Halske enjoy full liberty according to Article 8 a to d.

This however shall only apply to such Siemens Halske's patents as have and shall have been issued before the 13<sup>th</sup> November 1886, or up to the time, up to which the Edison patents fall within the terms of these presents.

Inventions, in respect of which application only for patent has been made, or shall be made, shall to be sure, not be considered as falling within the limits of these presents, until letters-patent shall have been granted. Both contracting parties shall however, on making such applications, as far as they apply to incandescent light, and if possible prior to the public exhibition of the specifications of such patents, mutually submit them to each other, in order first of all to endeavour to come to an understanding by way of compromise as to the admissibility of such claims for a patent.

Art. 18.

This contract shall extend over a period of ten years, counting from the day of its execution and shall always tacitly continue for a further year, unless notice to dissolve it be given by one or other of the parties not less than six months before its expiration.

Messrs. Siemens & Halske, however, have a right from the beginning of the fourth year of this contract, to give notice of dissolution of the same, provided such notice be given in writing within a period of six months, should it appear that the sum total of the light power of all incandescent installations in Germany in the said year, which have been established on the part of Messrs. Siemens & Halske and on the part of Mr. Edison, or his assigns and any licence-holders (Art. 1), or for which part of the machines, apparatus and lamps have been sold on the part of the contracting parties in the aforesaid Contract year, shall, taken altogether, not comprise one half of the sum total of light power which shall have been employed during the same period within the German Empire for incandescent lighting.

The term „established“ or executed installations shall be taken to include such as have been distinctly ordered at the period of limitation. Messrs. Siemens & Halske shall furthermore be entitled to give six months notice of dissolution of these presents in writing, provided the future German Edison Company shall amalgamate with another Company — whether this be by taking over another Company, or by itself being taken over by another Company. This right of withdrawal shall lapse, unless use be made thereof within a term of four weeks from the resolution of the General Meeting in respect of such amalgamation.

Art. 19.

All the engagements undertaken in these presents and all the renunciations expressed therein, shall only remain in legal force during the period of these presents themselves (Art. 18).

Art. 20.

All the contracting parties to these presents agree that such rights and obligations as have been drawn up in these presents, both for and against Mr. Edison, and his assigns, shall of their own accord pass over to the German Edison Company upon its entry on the Trade Register, provided the German Edison Company shall, within four weeks after its registration give a notification of acceptance in writing, said notification to be delivered to Messrs. Siemens & Halske, the latter being authorized to receive said notification by the contracting parties.

The contracting parties ad. 5, 6 und 7 engage towards the other contracting parties, that such declaration will be duly made. Should such declaration however not be given within the stipulated period, Messrs. Siemens & Halske shall at once be entitled to withdraw from these presents, by a declaration in writing to that effect to be delivered within a period not to exceed fourteen days.

Messrs. Siemens & Halske shall moreover be entitled to revoke their consent to the transfer of these aforesaid rights and obligations to the German Edison Company and to withdraw from these presents, should it appear that this Company shall have been constituted by virtue of Articles of Association materially deviating in any essential point from the Draft-Articles of Association annexed to these presents; such alterations, however, as shall become necessary upon demand of the Judge of the Trade Register Office shall not be deemed to be material alterations. Messrs. Siemens & Halske furthermore reserve to themselves a similar right to retire from these presents in the event of a material alteration

being made in the Contract, up to the period of the German Edison Company's establishment, entered into between the Compagnie Continentale, the Société Electrique and the Consortium or Syndicate, which said Contract has already been submitted to Messrs. Siemens & Halske and initialled by them, in token of their having taken cognisance thereof. These rights of withdrawal shall however lapse, provided Messrs. Siemens & Halske do not avail themselves of them within eight days after a communication in writing of the respective fact shall have been made by a declaration in writing.

In all cases in which, according to the foregoing, Messrs. Siemens & Halske have the right of withdrawal, they shall be entitled instead of such withdrawal to insist upon the fulfilment of these presents on the part of the contracting parties ad 2 to 7.

## Art. 21.

The contracting parties do agree, that the patent licence rights granted herein to Messrs. Siemens & Halske shall be independent of the effects in law of the relations of contract existing between Mr. Edison and the Electric Light-Company and the Compagnie Continentale. The German Edison Company shall acquire its licence rights from the Compagnie Continentale, subject however to the express consent hereby given on the part of Mr. Edison and the Electric Light-Company.

Mr. Edison and the Electric Light-Company, acknowledge, with the consent of the Compagnie Continentale, that such rights as have been stipulated in these presents towards Messrs. Siemens & Halske shall immediately appertain to the German Edison Company about to be formed, provided the

said Company shall enter into these presents, and so long as it shall continue to exist. Should it however be completely dissolved, or not be established, said rights and privileges shall pass over to the Compagnie Continentale in Paris.

None of the contracting parties ad 2 to 7 shall be responsible to Messrs. Siemens & Halske for the due fulfilment of these presents on the part of the German Edison Company after its entry into these presents, without prejudice to the continuation of the licence rights granted by Mr. Edison and the Light-Company to Messrs. Siemens & Halske by these presents, even in the event of the German Edison Company not entering into these presents or in case of its being dissolved.

The German Edison Company shall not be liable for such infringements of these presents as shall not emanate from it, but from Mr. Edison and his assigns and which it (the German Edison Co.) was not in a position to prevent.

## Art. 22.

These presents shall stand in material connection with the following contracts here under specified viz.

1. A supplementary contract between the same contracting parties concerning the agents Ungerer & Schulze of Strassburg in Alsace &c. \*
2. A contract between the Banking Houses ad 5-7 inclusive, on the one part, and the Compagnie Continentale Edison and the Société Electrique Edison, both of Paris on the other part, with regard to the alteration of former contracts and the future establishment of the German Edison Company etc. etc. (compare above Art. 20).

"Interest contract"

Market  
"A.B."

\* Banker writes (Incl. 20) that this contract has "no interest" for N.Y. Co.



The contracting parties to these presents hereby furthermore mutually acknowledge, that the non-signing of one of the aforesaid three contracts on the part of one of the parties thereto within four days counting from 13 March 1883 shall entitle any-one of the contracting parties to these presents, to withdraw from the same, and do so by an immediate notice to that effect in writing to be addressed to Mr. A. Simson, Solicitor of Berlin as being authorized by all the contracting parties to receive any such notifications.

Art. 23.

Mr. Joshua F. Bailey hereby declares that he is duly authorized by the contracting parties enumerated at the beginning sub 2 and 3 to conclude these presents, concerning which he has legitimated himself by a telegram received by him from New York from Mr. Edison and the Electric Light Company of Europe Limited, which said telegram he has deposited with the aforesaid solicitor Mr. Simson, and guarantees his due authorisation and powers of Attorney on the part of the aforesaid parties. In consideration however of the exceptional importance of these presents, Mr. Bailey has engaged to procure within a period of thirty days the co-signature to these presents, as also to the supplementary contract mentioned in Art. 22 No. 1, on the part of Mr. Th. A. Edison and the Edison Electric Light Company of Europe Limited, in such manner, that the respective signatures of the two latter shall be duly affixed to one or more copies hereof to be forwarded to them by him, particular regard being taken that such signatures shall be duly attested by the German Consul. Such, or a copy furnished with the respective signatures is to be forwarded to the aforesaid Solicitor, Mr. Simson for all of the Contracting parties, in

order that it may be delivered to the future German Edison Company upon certified copies thereof having been made for the other contracting parties.

The period of limitation shall be considered to have been duly observed, provided that within such period the solicitor, Mr. Simson shall have been apprized by the German Consulate either by telegram or in writing that the signatures of the contracting parties ad 2 and 3 shall have been duly affixed, of which notice the latter shall at once inform the contracting parties.

In the event of said co-signature not being furnished within the specified time each of the contracting parties enumerated sub 1 as also 5 to 7 inclusive shall be entitled, without prejudice to their rights, to insist upon fulfilment thereof, to withdraw from these presents by a notification to be delivered in writing to that effect, as provided by Art. 22 of these presents, namely within a fortnight of the expiration of said term of thirty days. Should this right of withdrawal be made use of, then these presents shall also cease to be binding on the remaining contracting parties ad 1 and 3 to 7 inclusive.

Art. 24.

The provisions set forth in these presents, shall so far as nothing to the contrary shall appear from the foregoing, take effect from this day, with the restriction however, that they shall not apply to those obligations with binding force, which shall have been made or accepted by one or other of the contracting parties hereto before the expiration of two weeks from today.

## Art. 25.

The contracting parties mutually accept all the foregoing declarations.

## Art. 26.

These presents were drawn up in one chief copy and nine supplementary copies. The principal copy was handed at the National Bank for Germany, one supplementary copy to Messrs. Siemens & Halske, four supplementary copies to Mr. Joshua F. Bailey for the contracting parties ad 2 to 4, and for the purpose of procuring the confirmation in writing (Art. 23), four other supplementary copies to the contracting parties ad 5 to 6, one of which they will forward to the English Edison Company and another for the sake of precaution, and also with a view to procuring the counter-signatures of the contracting parties ad 2 and 3, to New-York.

*Executed at Berlin, Mch. 13, 83*

№ 1  
aB

S.B. Eaton  
Copy

# MEMORANDUM

of

## supplementary Agreement

to the principal Contract concluded this day  
between:

1. The firm SIEMENS & HALSKE of Berlin of the one part, and
2. Mr. THOMAS ALVA EDISON of New York, represented by Mr. JOSHUA F. BAILEY of Paris, at present residing here,
3. The EDISON ELECTRIC LIGHT COMPANY of EUROPE LIMITED of New York, represented by him,
4. The Joint - Stock - Company „COMPAGNIE CONTINENTALE EDISON“ of Paris, represented by him,
5. The Banking-House SULZBACH BROTHERS of Frankfurt on the Maine,
6. The Banking-House JACOB LANDAU of Berlin,
7. The Joint - Stock - Company „NATIONAL BANK FOR GERMANY“ of Berlin, of the other part.

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### Art. 1.

Messrs. Siemens & Halske have, as they acknowledge, taken cognizance of the Contract, which was concluded on the 29<sup>th</sup> July 1882 between the Société Electrique Edison of Paris (represented by its administrateurs délégués Messrs.

J. F. Bailey and L. Rau) of the one part, and Messrs. Ungerer & Schulze of Strassburg in Alsace with regard to the position and rights of the latter as exclusive representatives of the Société Electrique Edison for the province of Alsacé, i. e. the former Departemens Haut-Rhin and Bas-Rhin.

Messrs. Siemens & Halske have, as they acknowledge, further taken notice, that the contracting parties ad 5 to 7, in accordance with their arrangements with the contracting parties ad 2 to 4, are bound to take over and fulfil the rights and obligations arising from the above Contract towards Messrs. Ungerer & Schulze.

Art. 2.

The contracting parties hereto all agree that the fulfilment of the Contract (mentioned in Art. 1) of the Société Electrique Edison with Messrs. Ungerer & Schulze by Mr. Edison and his assigns shall not be considered as a breach in any direction of the main contract concluded between the parties to these presents, as also furthermore that the prices and preferences to be granted to Messrs Ungerer & Schulze in accordance with their aforesaid Contract with the Société Electrique Edison shall have no influence on such prices and preferences, as the contracting parties to these presents, in accordance with their main Contract concluded this day, have granted or still have to grant to one another. The contracting parties however agree that the Contract of 29th July 1882 shall not prevent Messrs. Ungerer & Schulze from also acting on behalf of Messrs. Siemens & Halske within Alsace.

Art. 3.

Should an arrangement be made on the part of the Société Electrique Edison of Paris, or by whoever may in its

stead enter into the rights and duties of the Contract of 29th July 1882, in accordance with Clause 2 of Article 6 about a modification of the prices fixed in Art. 2 of the Contract, or of the commission allowed to Messrs. Ungerer & Schulze in Art. 6 without the special consent of Messrs. Siemens & Halske, any preferences so granted by such arrangements to Messrs. Ungerer & Schulze shall be taken into consideration in determining the discounts and price-rates to be allowed to Messrs. Siemens & Halske in accordance with the chief Contract of today.

Art. 4.

The contracting parties ad 2, 3 and 4 engage to bring about the dissolution of the Contract mentioned in Art. 1, as soon as it is admissible according to its tenor, also to use their endeavours towards attaining an earlier dissolution of said Contract than that admissible by its provisions.

Art. 5.

The contracting parties ad 2 to 4 engage to carry out and bring about that, upon the establishment of the German Edison-Company and as soon as in accordance with Art. 8 of the Chief Contract of today Messrs Siemens & Halske's obligation or right of delivery shall have commenced, all orders given or transmitted by Messrs. Ungerer & Schulze to the Société Electrique Edison of Paris in pursuance of the Contract of 29th July 1882, the execution of which has not been proceeded to, be transferred by the latter to the future German Edison-Company for execution.

Mr. Bailey in his capacity as attorney for the Société Electrique Edison guarantees that this obligation will be fulfilled.



*Executed at Berlin, Mech. 15. 85  
Mr Bailey master (Mech. 16) that*

This contract has "no interest"  
for the New York Company -

No. 4.

## Contract.

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Memorandum of Agreement hereby entered into between

- A) the Banking-House SULZBACH BROTHERS of Frankfurt on the Maine, the Banking-House JACOB LANDAU of Berlin, and the NATIONAL BANK FOR GERMANY also of Berlin on the one part, and
- B) The COMPAGNIE CONTINENTALE EDISON, and the SOCIETE ELECTRIQUE EDISON, both of Paris, represented by Mr. Joshua F. Bailey by virtue of a Power of Attorney from the said Companies dated Paris 23rd February and executed on the 26th February 1888, said Power of Attorney having been deposited with the Solicitor Mr. A. Simson, on the other part.

### Art. 1.

It should be mentioned by way of preface, that two agreements have already been concluded between the contracting parties to these presents, which said Agreements were signed by the contracting parties B. under date 15th July 1882 at Paris, while the contracting parties A. signed the aforesaid Agreements at various periods in Berlin and Frankfurt on the Maine. According to said Agreements the contracting parties A. have undertaken to establish a Société d'Etudes, for the special purpose of affording the public ocular demonstrations of the value of the Electric Light in various applications. The establishment of said Société d'Etudes, subject to certain conditions more accurately defined in the one Agreement;

and the actual fulfilment of said conditions, grants the contracting parties A. the right to establish a Manufacturing Company within a certain period of time, as set forth in detail in the one of the two above mentioned Agreements (viz. the Manufacturing-Contract) to wit, in such manner, that eventually the contracting parties B. do transfer to the new Company about to be formed a series of rights as specified.

The right of establishing said Manufacturing Company is however, in accordance with the tenor of the said Agreements further combined with the power and authorisation to claim all such rights and to take over such duties, as are laid down with regard to the future establishment of so called Central Stations in the second Agreement (the Central Station Agreement). In both of the two Agreements it is provided that the options granted in both to the contracting parties A. can only be conjointly executed. The period of option has successively been extended by a representation of the contracting parties ad B. finally up to the 14th March 1883.

#### Art. 2

The contracting parties A. have however arranged with the contracting parties B. to make various alterations in the Agreements referred to in Art. 1 of these presents. The proposed alterations will affect the amount of the ground or Stock-Capital, the advantages to be granted to the contracting parties B. the inclusion of Alceae Lorraine within the province of licence authorisations, the unification of the aims and objects of the Manufacturing Company and the Central Stations in the hands of one sole Manufacturing and Lighting Company, together with many other separate provisions.

#### Art. 3

With a view to effecting these alterations in establishing the projected Manufacturing and Lighting Company, the contracting parties A. have drawn up the Articles of Association annexed hereto, duly signed by them, said Articles being intended to serve as Articles of Association to the projected Firm, "German Edison Company for applied electricity". With regard to the stock-capital of the said company it is provided that the actual payments (in-

statements) made thereon up to the expiration of the year 1883 shall have reached a sum of not less than four million Marks.

Now without participating in the establishment of this Company, the contracting parties B. hereby allow, that said Articles of Association contain exactly the arrangement arrived at with the contracting parties A. with regard to the projected Company; they moreover approve and confirm the proviso respecting the settlement of the amount of the Stock Capital. They furthermore accept all financial advantages and interests turned over to them therein, and lastly confirm to the contracting parties A. that by the establishment of the aforesaid Company on such basis, those obligations shall be deemed to have been discharged which the contracting parties A. and B. reciprocally imposed on one another in respect of the Agreements alluded to in Art. 1 of these presents, and in respect of the alterations agreed upon in the latter. In like manner the contracting parties B. undertake the obligations which fall to them in accordance with the Articles of Association herewith annexed, and agree once more explicitly to confirm the same towards the new Company upon its entry on the Trade Register.

#### Art. 4

By conclusion of these presents, the rights of the contracting parties A. as coded to them on the part of the contracting parties B. in the two Frankfurt Agreements (mentioned in Article 1 of these presents) concerning the establishment of a Manufacturing Company, and about the formation of a syndicate for Central Stations, with a period of limitation extending to the 14th March 1883, become of course null and void.

Mr. Joshua F. Bailey hereby declares, that he is duly authorized by Mr. Th. A. Edison and the Edison Electric Light Company of New York to give their consent to these presents and to whatever is granted in favour of the German Edison Company in the annexed Articles of Association concerning which he has also legitimated himself by a telegram received by him from New York from Mr. Edison and the Electric Light Company of Europe Limited, which said telegram he has deposited with the aforesaid solicitor Mr. Simson, and guarantees his due authorisation and powers of

Attorney on the part of the aforesaid parties. In consideration, however, of the exceptional importance of these presents, Mr. Bailey has engaged to procure within a period of thirty days the counter signature to these presents as also to the other contracts mentioned in Art. 18 of these presents on the part of Mr. Th. A. Edison and the Edison Electric Light Company of Europe Limited, in such manner, that the respective signatures of the two latter shall be duly affixed to one or more copies hereof to be forwarded to them by him, particular regard being taken that such signatures shall be duly attested by the German Consul. Such, or a copy furnished with the respective signatures is to be forwarded to the aforesaid solicitor Mr. Simson in order that he, upon drawing up certified copies thereof, the original deed to be furnished to each of the contracting parties may deliver it to the new Company.

The period of limitation shall be considered to have been duly observed, provided that within said period the solicitor Mr. Simson shall have been duly apprized by the German Consulate either by telegram or in writing that the signatures of the aforesaid interested parties shall have been duly affixed, of which notice the latter shall at once inform the contracting parties.

In the event of said co-signature not being furnished within the specified time, each of the contracting parties ad A. shall be entitled without prejudice to their right to insist upon fulfillment thereof, to withdraw from these presents by a notification to be delivered in writing to that effect, as provided by Art. 18 of these presents, namely within a fortnight of the expiration of said term of thirty days. Should this right of withdrawal be made use of, these presents shall also cease to be binding on the remaining contracting parties ad A. Furthermore, in the case of such withdrawal, the right of option arising from the former contracts mentioned in Art. 1 shall revive, to wit, in such manner that the period of limitation for exercising such option is hereby fixed at two months from the expiration of said thirty days period of limitation.

Upon punctual receipt of said sanction of contracts from New York the contracting parties A. shall however be bound to carry out these presents immediately by establishing the „German

Edison Company for applied Electricity" and to see that the aforesaid Company do within four weeks after its entry on the Trade Register give the Compagnie Continentale Edison of Paris a written declaration in confirmation of its obligations in pursuance of its Articles of Association.

#### Art. 5.

For the realisation of the shares of the first Emission, a Syndicate shall be formed, to which the following provisions shall apply:

- a. Its term of office shall be one year commencing from the date of the Company's entry on the Trade Register.
- b. The management of the Company shall be jointly entrusted to the National Bank für Deutschland of Berlin, the Banking House Jacob Landau also of that city and the Banking house Gebr. Sulzbach of Frankfurt on the Main; the right of becoming a member of the Syndicate shall be reserved to Mr. C. Forges of Duquet by the National Bank für Deutschland, which shall also summon the members of the Management to attend any conferences requisite.
- c. Votes shall be carried by a majority; sales at a loss however may not take place if objected to by any one member of the Syndicate.
- d. Re-purchases shall be permissible up to one half of the shares already sold for the time being as par balance.
- e. As soon as the whole of the shares shall have been sold, the Syndicate shall be dissolved and a settling of accounts furnished to all the parties concerned within four weeks time.

#### Art. 6.

The following regulations shall apply with regard to the distribution of the profits accruing from the sale of the shares after deducting all costs of issue.



- a. First of all the said profits shall be applied to covering the expenses incurred by the Société d'Etude (including those borne by the contracting parties A. and B. which latter shall also include the fees to be paid by the said contracting parties ad A. and B. to the solicitors Dr. Fuhr of Frankfurt on the Maine and Dr. Goldschmidt of Berlin).
- b. Of the balance left, the contracting parties B. shall receive ten per cent. After this deduction the remaining profits shall go to the contracting parties A. who shall divide the same amongst one another in accordance with their special arrangements.

## Art. 7.

Apart from the provision made in Clause b. of the foregoing article, the arrangements obtaining with regard to the dissolution and winding-up of the provisional Company Société d'Etude are in no wise affected by these presents. It is moreover expressly stipulated, that so far as the defrayal of the expenses of the provisional Company cannot be affected out of the profits yielded on shares up to the time of the dissolution of the Syndicate, such defrayal must be made by the contracting parties A. and B. — irrespective of any future value of shares — as already heretofore settled between the said contracting parties in accordance with the existing Agreements.

## Art. 8.

In the event moreover of the shares of the first issue not being entirely disposed of upon the expiration of the Syndicate, the contracting parties A. hereby grant to the contracting parties B. the right to take over a tenth part of said unsold shares at their own cost-price, i. e. at par plus their share of amount of cost of issue. This right shall lapse, should the contracting parties B fail, — within a fortnight upon receipt of information from the Syndicate as to the number of shares so left unsold, — to avail them-

selves of such right, by means of a statement in writing, to be addressed to the Syndicate, care of the „National Bank für Deutschland“, accompanied by due payment of instalment in respect thereof.

## Art. 9.

The contracting parties A. will, upon the establishment of the German Edison Company, offer the latter:

- a. to enter into the existing contract relations for the lighting of the Munich Residenz Theatre;
- b. to take over the Agents in Alsace hitherto appointed by the contracting parties B., namely, Messrs Ungerer & Schulze of Strassburg in Alsace whose relations in law with the contracting parties ad. B. are defined by Contract dated 29<sup>th</sup> July 1882, a copy of said Contract being deposited with the Solicitor Mr. Simson;
- c. to enter into the Agreement which has been concluded between the firm Messrs Siemens & Halske of Berlin of the one part, and the Contracting parties ad A., the Compagnie Continentale Edison of Paris, Mr. Thomas Alva Edison of New York and the Edison Electric Light Company of Europe, Limited New York of the other part, which said Agreement shall embrace on the one side the rights of Licence of the firm Siemens & Halske in the Patents, (compare Art. 35 of the Articles of Association), as also the dues (royalties) on the other side to be agreed upon for said rights in favour of the German Edison Company for applied Electricity and at the expense of the firm Siemens & Halske.

The contracting parties A. guarantee to those B. that the German Edison Company will accept the whole of these offers. The parties B declare that an Agency-Contract has not been concluded between them and Mr. H. G. Möhring of Frankfurt on the Maine, and that actual relations with him have been dissolved.

## Art. 10.

The contracting parties B. are empowered to nominate three Members for the first Board of Directors of the German Edison

Company, who must be duly qualified in accordance with the Articles of Association. During their period of office however, the Commissioners of the contracting parties B. (as provided by the Articles of Association) must be one and the same persons.

## Art. 11.

With the signing and conclusion of these presents, the Société Electrique retires from its relations in law towards the contracting parties A. by transferring all its rights hitherto acquired towards the contracting parties A., to the Compagnie Continentale.

In as far as in future any question should arise in the fulfilment of the mutual rights and duties, which are to be observed by the Société Electrique towards the contracting parties A., or towards the German Edison Company, the Société Electrique recognizes all dispositions relating thereto made by the Compagnie Continentale as binding on itself.

## Art. 12.

In the event of the case arising, as provided for in Art. 49 of the Articles of Association, the contracting parties A. undertake not to make such modifications as may be required by the Judge of Commerce, without receiving special sanction thereto from the Compagnie Continentale of Paris, or from a duly authorized Attorney of theirs here. This sanction must be given, if the amendments do not affect the material relations in law.

## Art. 13.

These presents shall stand in material connection with the further contracts hereunder specified, viz:—

I. the Contract specified in Art. 9 with Messrs. Siemens & Halske of Berlin, and

II. the Contract mentioned as supplementary to I concerning the Agents Ungerer & Schulze of Strassburg,

and the contracting parties to these presents hereby mutually acknowledge, that the non-signing of one of the aforesaid contracts on the part of one of the parties thereto, within four days count-

ing from 18th March 1883 shall entitle anyone of the contracting parties to these presents to withdraw from the same and do so by an immediate notice to that effect in writing to be addressed to Mr. A. Simson, Solicitor of Berlin, as being authorized by all the contracting parties to receive any such notifications.

## Art. 14.

The contracting parties mutually accept all the foregoing declarations.

## Art. 15.

These presents were drawn up in one chief copy and nine supplementary copies. The principal copy was handed to the National Bank for Germany; five supplementary copies to Mr. Bailly, viz. one for each of the contracting parties ad B., one for the purpose of procuring the confirmation thereof in writing from New York (Art. 4) one to be left with the parties concerned in New York, and one for delivery to Messrs. Siemens & Halske; four other supplementary copies to the Banking-Houses Messrs. Sulzbach Brothers and Jacob Landau, who will hand one of them to the German Edison Company and forward another for the sake of precaution to New York, likewise for the purpose of procuring counter-signature in accordance with Art. 4 of these presents.

No. 4. S. B. Eaton's Copy  
(XX)

## Memorandum of Agreement

entered into between

1. The Banking-House **Gebr. Sulzbach** of Frankfurt on the Maine,  
**Jacob Landau** of Berlin,  
the **National-Bank for Germany** of Berlin

on the one part, and

2. The **Compagnie Continentale Edison**, and  
The **Société Electrique Edison**, both of  
Paris,  
represented by **Mr. Joshua F. Bailey** as their  
Attorney,

on the other part, as supplement to the Contract concluded this day between the selfsame parties.

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### Art. 1.

In the Articles of Association, on the basis whereof the German Edison Company for applied Electricity is to be established, it is provided, that an alteration of the aim and object of the Company, or its amalgamation with another Company, or its dissolution cannot be resolved upon within the first ten years of the Company's entry on the Trade Re-

gister without the consent of the Compagnie Continentale Edison, except in such cases as are provided for by law, or in the event of fifty per cent. of its Stock-Capital having been lost (vide Art. 4 and 31 of the said Articles of Association).

Art. 2.

The Compagnie Continentale now, with the consent of the Société Electrique Edison hereby engages towards the contracting parties hereunto of the first part, in the event of the future German Edison Company demanding it, to forego the right of interdiction vested in it the said Compagnie Continentale Edison, as specified in the preceding Art. 1. of these presents, in the event of the Contract entered into on the 13. March 1883 between the firm Siemens & Halske of Berlin of the one part and Mr. Thomas Alva Edison of New-York, the Edison Electric Light Company of Europe lim. of New-York and other interested parties of the other part, no longer being in force upon the expiration of six years after the registration of the German Edison Company on the Trade Register —, provided moreover that at the same time one of the eventualities herein after specified should have arisen or should arise, viz:

1) Whenever the Compagnie Continentale Edison of Paris shall cease to be the proprietor of at least three hundred Founders-Certificates of the German Edison Company (vide Art. 11 of the said Articles of Association), or

2) Whenever moreover the industrial exploitation of the Edison incandescent-lighting shall become impracticable in consequence of a new invention, or whenever the industrial

exploitation of the electric lighting of towns by means of a general distribution of the energy of the electric current through a system of conductors similar to that now applied in New-York shall prove infeasible, in consequence of the invention of a method of independent electric lighting of single houses.

Art. 3.

This present Agreement, as an integral part of the Contract concluded on the 13. March 1883 between the Compagnie Continentale, the Société Electrique and the Syndicaté, has, in view of Art. 20 of the aforesaid Agreement entered into between the firm Siemens & Halske of the one part and the several contracting parties of the other part, — been submitted to Messrs. Siemens & Halske, who in token of their cognisance thereof have appended their signature thereto.

Art. 4.

These presents have been drawn up in one chief and six supplementary copies; each of the contracting parties, as also Messrs. Siemens & Halske to be provided with a copy, and a further copy to be given to the National Bank for Germany for delivery to the German Edison Company.

Executed at Berlin, Mch. 13 & 1883  
Mr Bailey writes (Mch. 16) that  
this is a "secret contract, made to  
satisfy doubts of one of the German  
banking houses". It is made ref=

anately, so as not to appear when  
the main contract is adopted  
as a precedent for other coun-  
tries -

[MARCH 13, 1883]

Articles of Association  
of the  
**German Edison Company**  
for  
**applied Electricity.**

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**Section I**

**General Provisions.**

**Art. 1.**

Under the style and firm „Deutsche Edison Gesellschaft für angewandte Electricität“, a Joint-Stock-Company is established by virtue of these presents.

**Art. 2.**

The Company shall have its domicile in Berlin; it may however remove the same to any other place in Germany. The Company is authorised in pursuit of and for the attainment of its objects, and within the limits prescribed in Art. 3, to erect Branch-Establishments and agencies of every description at home and abroad, and may participate either as a sleeping or joint-proprietor in private Joint-Stock-Companies, or as open partner in any other kind of trading-firm, or do so by subscribing to Stock or other shares or certificates of a like character in any public or private Joint-Stock-Company or firm.

## Art. 3.

The object for which the Company is established is to make every industrial exploitation of:

I. All the Patents granted in Germany to Mr. T. A. Edison of New York or of German Imperial Patents still to be granted to him, inclusive of all Improvement or Supplementary Patents in respect of the measurement, distribution and application of Electricity for lighting and the transmission of energy.

II. of all inventions in the province of lighting by arc-lights.

For incandescent lighting the Company may only exclusively employ the Edison-System; for the Arc-light lighting it may use any system it chooses.

The Company may acquire patents, rights of exploiting patents, together with all rights in or appertaining thereto concerning the application of technical processes, inventions and secrets but only with the sanction of the Compagnie Continentale Edison of Paris. Besides the Company shall, in its industrial pursuits be guided by the provisions in Art 35 :

## Art. 4.

The Company can not be dissolved before the expiration of 50 years, unless in cases provided for by law, or in the event of fifty per cent. of its stock-capital having been lost.

Otherwise its duration is not limited to any distinct period.

## Section II.

## Stock-Capital and Shares.

## Art. 5.

The Stock-Capital of the Company shall be five million Mark, divided into ten thousand shares of five hundred Marks. Increases of Stock-Capital up to ten million Marks shall be admissible upon a resolution of the Board, increases beyond that sum upon a resolution of the General Meeting up to any

amount. It may also be resolved, in order to increase the Stock-Capital to issue Preference-Shares, which shall enjoy a preferential right to dividends, and a preferential claim to settlement out of the estate in the event of the Company being dissolved, subject however to the provision, that the right of the Founders Certificates to a participation in the net profits of 35 per cent., after allotment of an annual dividend of six per cent. on the whole of the paid-up Stock and Preference Capital, may not be curtailed.

At every new issue of shares, the shareholders for the time being shall be entitled to take over such portion of the fresh issue, as shall fall to them in proportion to their share-property, at the price fixed by the Board. This privilege must however be made use of within a prescribed term, to be determined by the Board, which said period shall not be less than fourteen days and be published in the Company's newspapers, failing which said privilege shall lapse. In cases of partial joint-ownership the Board shall determine the mode of settlement and also decide upon the time, mode and terms of the issue.

## Art. 7.

Fifty percent shall be immediately paid up on all shares of first issue of 5 million marks. The balance on shares of the first issue is to be paid up before the end of the year 1883. In subsequent issues the subscribers may, by a resolution of the Board, on payment of forty per cent. be released from liability for further instalments, and interim certificates, made out to bearer, be issued on shares. Further calls will be made by the Board, which shall also determine the amounts and periods of payment. The Board shall also be authorised to demand payment of the whole of the balance of instalments at one time.

## Art. 9.

In so far as payment in full shall have been decided upon by the Board prior to the issue of shares, Interim-Certificates, made out to bearer, shall be issued for paid-up calls. Upon full payment of the nominal amount having been made, shares, to bearer, shall be issued upon delivery up of the Interim-Certificates; to the shares, bearing consecutive numbers, and like the

interim-certificates, showing the facsimile of one of the members of the Management, a member of the Board, and initiated by a Controlling-Officer, shall be attached coupons for five years and talons, each entitling the owner to a further series of coupons with talons.

For the rest, the form and tenor of the interim shares, coupons and talons shall be determined by the Board.

The Company shall be entitled but not obliged to test the legitimacy of parties presenting coupons and talons.

#### Art. 11.

The company shall issue 2500 Founders-Certificates, made out to name, and indorsed to order, which shall not confer upon the owner any rights of a shareholder, but merely on the contrary entitle him, upon delivery up of the coupons thereto, to a pro rata share of 35 per cent. of such surplus of the net profits as shall remain after payment to the shareholders of a dividend of six per cent. upon the paid-up Capital for the time being.

The provisions of Articles 9 and 10 shall be similarly construed in their application as regards Founders-Certificates and coupons and talons thereto.

For the rest, the tenor and form of the Founders-Certificates, as also of their coupons and talons shall be fixed by the Board. The Founders-Certificates shall be entered in a special book of the Company kept for that purpose, with an exact specification of the number and owner, together with his name, profession and residence.

In the case of a Founders-Certificate changing hands, this must be recorded in the respective book, when the Certificate in question must be submitted to the Company, together with the proof of transfer.

Only such persons shall be considered as owners in relations with the Company, as are entered as such in the Company's books. The Company shall be entitled but not obliged to test the genuineness of transfers, as also the legitimacy of the presenter of Founders-Certificates or coupons and talons thereto.

#### Art. 12.

The Founders-Certificates, provided for in Art. 11 shall be distributed as follows:

1. The first subscribers to shares of first issue shall receive one Founders-Certificate for every ten shares subscribed to, thus making in all one thousand of them.
2. The Compagnie Continentale and the Société électrique in Paris shall receive the remaining fifteen hundred in consideration of the cession of certain rights specified in Art. 35 and Art. 36, and without prejudice to the further royalties granted to the said Companies there according to their statutes.

#### Art. 13.

In the event of the Company being wound up, 35 per cent. of the proceeds of liquidation in excess of the amount of the paid-up share-capital, shall be distributed among the owners of Founders-Certificates in proportion to their shares.

In the event of the amalgamation of the Company, — (which shall only be admissible with the consent of the Compagnie Continentale in accordance with Art. 31) — with another company, and provided the new company thus created shall not sanction the continuance of such Founders-Certificates by extending their privileges to the whole of the Company, the new Company shall be authorized to compound with the owners of such Certificates by a payment of twelve and half times the amount of the annual average returns on such Certificates for the past years. The owners of Founders Certificates shall be obliged to submit to one or other of these two modes of satisfying their claims.

Notices of redemption of Founders-Certificates, to be accompanied by a definition of the mode of redemption must be given, together with the appointment of a definite term for presentation of not less than three weeks, to wit: by means of three successive notices with not less than a week intervening between each.

At the end of a year after expiration of the term of presentation, every claim to compensation and every right according



from Founders-Certificates, till then unrepresented for redemption, shall lapse, and said certificates become valueless.

The coupons and talons of Founders-Certificates, which have not become due, shall already become valueless upon the publication of their withdrawal.

Should the loss of a Founders-Certificate be reported and attested before the expiration of the specified year, the Board may, on the expiration of the year, pay to the registered owner in the Company books such compensation, even without a previous declaration of annulment.

### Section III.

#### The Management.

##### Art. 14.

The Management (Managing Director or Managers) shall have all the rights and duties, which legally appertain to the Management of a Joint-Stock-Company.

The Management shall consist of one Manager or several members, who shall either be duly appointed Managers or delegates of the Board (Managing-Directors).

The Board shall elect the members of the Management and determine and regulate the composition of the Management and the number of its members.

As long as a member of the Board is delegated into the Management, his functions in the Board shall lapse.

The appointment of the Members of the Management shall be notariaily recorded, and must like their retirement be published in the Company's newspapers.

The members of the Management shall be legitimated by an attestation of the competent Court, or by an extract from the Trade-Register.

##### Art. 15.

All declarations binding the Company must, in order to make them binding on the Company, be signed by two persons duly authorized to represent the Company, to wit:

- a) Either by two members of the Management, or
- b) by one of the Management in conjunction with a clerk duly furnished (as shall appear from the notarial minutes and record thereof) with powers of procurement by the Board.)\*

##### Art. 16.

The Management shall be bound by the provisions of the Articles of Association, the resolutions of the General-Meeting and the instructions of the Board, or its Committee (Art. 17).

The relationship of the Managers to the Company shall be determined by the contracts to be concluded between them and the Board.

### Section IV.

#### The Board.

##### Art. 17.

The Board of the Company shall have all the rights and duties, which legally appertain to it, together with those expressly attached to it by virtue of these presents.

The Board, amongst its other powers, authorities and discretions, shall appoint the members of the Management and such of the Company's officers, whose salary shall exceed 3000 Marks per annum, or who, by contract are to receive extra remuneration by way of participation in the profits.

The Board must give its sanction to all purchases of real estate, mortgaging of same, and issues of bonds.

The Board shall determine and regulate the establishment and closing of any branches or agencies whatsoever, the Company's entrance or retirement as open or sleeping partner into or from any public or private company or trading firm, or its participation by subscribing to any stock or other description of shares in such Companies or firms.

The Board may permanently delegate to any of its members its powers (to be revocable) of supervision and control, together with the contingent exercise of its rights of protest, entirely or for certain spheres of its business. The Management shall be bound by the instructions of such permanent Committee, similarly to those of the entire Board.

\*) Some formalities concerning mode of organizing are omitted here.

## Art. 18.

The Board shall be elected from out of the number of the shareholders by the General-Meeting by an absolute majority, and shall consist of not less than seven nor exceed fifteen directors. The first Board shall hold office until the first ordinary General Meeting to be held in 1884, and in no case for more than a year. From thenceforward the Board shall always be elected for periods of five years. Retiring members shall always be re-eligible. The election shall be taken to be declined if the person so elected shall fail to notify in writing his acceptance of such office within a fortnight of its publication.

## Art. 20.

The share qualification of a director shall be his being the registered holder of ten shares of the Company to be deposited with the company during his term of office.

## Art. 21.

The members of the Board (directors) shall receive a participation in the net profits as provided in Art. 33.

This commission shall at the same time constitute their remuneration for their services up to the ordinary meeting of the following year.

The question of the remuneration of the first Board shall be determined by the ordinary General Meeting to be held at the expiration of the first business year.

## Art. 22.

The Board shall annually elect a Chairman and a Deputy Chairman of which a notarial protocol shall be drawn up. The Board shall as a rule meet at least once each quarter of a year and shall determine and regulate its own mode of procedure.

Resolutions, unless where otherwise provided for by these presents, shall be decided by an absolute majority of votes. In

the case of equality of votes, the Chairman shall have a casting vote.

The members of the Management, shall if requested to do so, attend the Meeting of the Board.

Both in urgent and ordinary cases the assent to a motion may be obtained by means of a circular, the Chairman ultimately deciding whether there is any occasion for doing so.

## Section V.

### General Meetings.

#### Art. 23.

The General Meeting shall be called by the Board; the Board shall give at least a fortnight's notice (to be published once in the Company's newspapers) of any such meeting, such notice specifying the business to be transacted thereat.

#### Art. 24.

Every Shareholder shall be entitled to attend General Meetings, but only a shareholder holding not less than five shares shall be entitled to vote without prejudice to the provision in Art. 31, Clause 2. Every five shares shall entitle the holder to one vote. The resolutions of the General Meeting shall be unconditionally binding on the individual shareholders.

#### Art. 25.

The ordinary General Meeting shall be held regularly at the domicile of the Company in the first four months of every calendar year.

An extraordinary General Meeting may be called whenever the Board shall think it necessary, and must be called, and be held within six weeks, whenever a requisition of one or more shareholders, holding not less than one-fifth of the share-capital issued, and stating fully the object of the meeting and the reasons for demanding it to the Board be delivered and left at the office of the Company or at any other place appointed by the Board, together with the deposit of shares on the part of such requisitionists.

## Art. 27.

The General Meeting, apart from those objects mentioned in Art. 30, shall adopt its resolutions by an absolute majority of votes; in cases of equality of votes, the Chairman shall have a casting vote.

## Art. 28.

The ordinary General Meeting shall deliberate and determine on the annual Report, the passing of the annual accounts and balance-sheet, the assessment of the net profits together with their distribution, as also on the discharge (indemnity) to be granted to the parties concerned on auditing and passing the accounts, and shall conduct the requisite elections.

## Art. 29.

Whenever a requisition in writing from any number of shareholders, holding in the aggregate not less than 250 shares is delivered, it must be placed on the Order of the day of the General Meeting, provided it is left at the office of the Board, together with the deposit of the shares, not less than three weeks prior to such meeting.

## Art. 30.

The General Meeting shall furthermore decide with binding force on all the Shareholders of the Company:

1. On the removal of the domicile of the Company;
2. on other alterations of these Articles of Association and also in particular:
3. on an increase of the Stock-Capital beyond 10 million Marks;
4. on every kind of reduction of the Stock-Capital, and in particular by the re-purchase of its own shares, and indeed on every way of diminishing the Stock-Capital;
5. on any alteration of the aim and object of the Company, and on the amalgamation of the Company with any other one, either by taking over another Company into this or vice versa;
6. on the dissolution of the Company (Art. 4).

## Art. 31.

The resolutions aforementioned in Art. 30 shall however be subject to the following closer provisions:

The resolutions enumerated in Clauses 1, 2, 3 and 4, in order to make them valid, shall require a majority of two thirds of the votes given; the resolutions comprised in Clauses 5 and 6 shall only be valid, subject to the provisions resulting from the following stipulation of the paragraph of this article and shall moreover only then become valid when, either not less than one half of the shareholders being present at the General Meeting, the respective resolution be passed by an absolute majority of votes; or in the event of less than one half of the Share-capital being represented, not less than three fourths of the votes given must be in favour of such resolution. In addition to this, in passing resolutions on these matters every share shall entitle to a corresponding vote.

The General Meeting, which shall resolve upon the dissolution of the Company, shall also appoint the Liquidators and determine the time, mode and terms of the winding up. An alteration of the aim and object of the Company, or its amalgamation with another Company or its dissolution cannot however be resolved upon within the first ten years of the Company's entry on the Trade Register without the consent of the Compagnie Continentale, except in such exceptional cases as are provided for in Art. 4. Nor shall said resolutions be admissible after such date, without the consent of the Compagnie Continentale as long as the essential Imperial German Patents of Mr. Edison and the Light Company in respect of incandescent light shall be in force. In the event of any dispute arising as to the significance of the term "essential" a Court of Arbitration consisting of five persons shall decide thereon, said Court of Arbitration to be elected as follows:

Each party shall be entitled to nominate two arbitrators. The appointment of the fifth arbitrator shall lie with the Elders of the "Berlin Merchants Corporation" or with any other body or authorities which may take its place. Each party shall give the names of its nominees to the other party not later than two weeks from the date of being called upon to do so, failing which the defaulting party shall forfeit his right to nominate.

The two arbitrators to be nominated by the defaulting party shall be replaced by two other arbitrators to be appointed by the aforesaid corporation or substitute thereof.

The Court of Arbitration shall be free to decide as it sees fit, and shall not be bound by any formal regulations.

The Court of Arbitration shall publish its verdict to the parties within a reasonable time.

The following provisions of these presents furthermore shall not be altered without the consent of the Compagnie Continentale: Art. 3, last alinea but one, Art. 4, Art. 11 first alinea, Art. 12, Art. 13 alinea 1, Art. 31 in as far as it treats of the consent of the Compagnie Continentale to certain resolutions of the General Meeting; Art. 33, as far as it refers to the beneficial interests of the owners of Founders certificates, finally Articles 35-46 inclusive.

The rights of protest granted to the Compagnie Continentale in this present Article also in general those, comprised in these presents, and more particularly those comprised in Articles 3, 13 and 46 shall all lapse whenever the Company is dissolved, its transfer to other parties or Companies being inadmissible.

#### Art. 32.

An alteration of the several provisions laid down in Art. 31 respecting the validity of the resolutions of the General Meeting mentioned therein, can only take place upon the same suppositions and subject to the same conditions as those prescribed for the passing of the respective resolutions.

### Section VI.

#### Balance-Sheet, Division of Profits, Reserve Fund.

##### Art. 33.

The Calendar year shall be the business year. The first business year shall comprise the term from the establishment of the Company to the expiration of the year 1888. The accounts shall be closed annually with the 31st December, and the Balance-Sheet drawn up.

The surplus of all assets over the liabilities inclusive of the Stock-Capital and the Reserve-Fund, shall constitute the net Profits, to which latter the prescriptions of the Statutory Law shall apply (Commercial Code Art. 31 and 230h).

The net profits, as shown by the balance sheet, shall be appropriated as follows:

1. To the payment to shareholders of a dividend at the rate of six per cent. per annum on the calls paid up. Of the remainder of such surplus then left thirty five per cent. shall be paid to holders of Founders Certificates.
2. Of the then remaining surplus five per cent. at least shall be set apart for the Reserve Fund, however only so far and so long as the Reserve Fund shall not have reached the amount of one-tenth of the Share-Capital for the time being.

Ten per cent. of such surplus shall be distributed among the Directors and the Commissioners respectively (mentioned in Art. 45) by way of a commission. Such surplus shall furthermore serve to defray the amounts of participation in profits to be paid to the managers and other officers of the Company in accordance with their terms of engagement.

3. The remainder of such surplus shall be available as a further dividend (superdividend) among the shareholders in such manner as the General Meeting may direct.

Dividend and Super-Dividends shall be payable on the 1st of July at latest.

##### Art. 34.

The Reserve Fund shall, like the Stock Capital, be applied to the business of the Company as prescribed by these presents, and shall not bear interest. The General Meeting may resolve to meet extraordinary losses or expenses out of this fund.

### Section VII.

The Company's position in law to the Compagnie Continentale Edison as also to Mr. Thomas Alva Edison and the Edison Electric Light Company of Europe Limited of New-York.

## Art. 35.

The German Edison Company for applied electricity shall acquire from the Compagnie Continentale de Paris, with the sanction of Mr. Thomas Alva Edison and the Edison Electric Light Company of Europe Limited of New-York, subject to the provisions of Clause 205 b) of the German General Commercial Code, the exclusive right of industrial exploitation of the inventions of Mr. Edison and the aforesaid Electric Light Company specified in Article 3, to wit for the whole of Germany, and in particular the following rights as exclusive right.

1) The right to manufacture or have manufactured in the workshops of foreign Edison Companies all machines, apparatus, utensils and materials employed in the Edison system, as specified in Art. 3 of these presents, no matter whether patented or not, while the manufacture in other factories shall only be permissible as long as the Compagnie Continentale shall exist with its sanction; furthermore to procure and to sell the said articles;

2) the right to erect installations for purposes of lighting and transmission of energy; or to cede the rights in connection herewith to other parties;

3) the right itself to employ the articles specified above in clause 1 & 2, as also that of granting said right of use to third parties.

Mr. Edison, the Electric Light Company and the Compagnie Continentale in granting the said licenses do not undertake any further guarantee with regard to the patents beyond that of their present existence. — The right of manufacture (Clause 1) shall also extend to machines, apparatus, utensils and materials employed in electric railways-lines, not however to their application.

The Company shall only be restricted with regard to its industrial action and pursuits (Art. 3) and respecting the right ceded to it as above, by such rights as have been ceded to Messrs. Siemens & Halske of Berlin in pursuance of the two Contracts entered into between Messrs. Siemens & Halske and Mr. Edison and the Edison Electric Light Company, the Compagnie Continentale as also any other partners, while on the other

hand, the rights ceded in the aforesaid contracts to Mr. Edison, the Electric Light Company and their assigns shall of themselves pass over to the German Edison Company, provided the latter shall deliver into the hands of Messrs. Siemens & Halske a declaration of Acceptance within a period not later than four weeks after its entry on the Trade Register.

The amount of the purchase-money to be paid in cash out of the funds of the Company to the Compagnie Continentale de Paris in respect of the above specified rights, shall be three hundred fifty thousand Marks. An amortisation of this sum shall take place in such manner, that the Compagnie Continentale shall forego the royalties granted to it in Art. 41 of these presents until such time as they shall have reached the amount of 350,000 Mark. In the measure, in which this amount accrues from the business of the Company, it shall flow into the assets of the latter, while the purchase-money for the rights acquired thereby in accordance with the foregoing may only always be entered on the Balance-Sheet with the correspondingly reduced amount, until at latest, having reached the whole sum, it disappears entirely from the assets.

In addition to the abovementioned 350,000 Marks, those other beneficial interests, granted elsewhere to the Compagnie Continentale (compare Art. 12 & 41) shall be deemed equivalents for the rights acquired in accordance with this Art.

## Art. 36.

The Compagnie Continentale in Paris undertakes to apprise the Company for Germany and the Company alone of all patented and unpatented inventions, improvements and results of experiments connected herewith, which are already at Mr. Edison's, the Edison Electric Light Company's or its own disposal for electric lighting or transmission of energy, or which Mr. Edison the Electric Light Company or the Compagnie Continentale itself may become possessed of up to the 15th. November 1880, and to communicate them to the whole extent of the several processes specified in

Art. 36; all this for Germany and to aid and assist the Company in its working in every way in such wise, as to enable it to carry out its manufacture with the same degree of technical perfection as the Compagnie Continentale itself.

In particular the Paris Company shall be bound to furnish the Company at the latter's expense, with suitable instructors. The German Edison Company shall be reciprocally bound in all these respects.

Art. 37.

As soon as the Company shall have been entered on the Trade-Register, the Compagnie Continentale shall hand over to it such powers of attorney of Mr. Edison and of the Light Company of New-York, as it may require to prosecute any measures both within and without law on account of any infringement of the rights to be transferred to it by virtue of these presents.

The right secured to Mr. Edison and the Light-Company in the Contract of 15th November 1881, with the Compagnie Continentale of accessorially participating in any action at law to be taken on account of unlawful imitations of patented inventions of theirs, as also in any other suit at law and system of administration, which may be set in motion at the instance of the lessees or holders of said licences, is hereby expressly reserved to Mr. Edison and the Light Company.

Art. 38.

The German Edison Company engages on its part, at its own cost to look after the protection of the Edison Patents in question, and instantly to inform the Compagnie Continentale in Paris of any infringement of the respective patent-rights which may come to their knowledge. Should legal measures become necessary for the protection of said patents, compromises therein may only be concluded with the sanction of the Compagnie Continentale.

Art. 39.

The Compagnie Continentale shall at all times, upon conditions of reciprocity, be obliged to place the several deeds and

documents requisite for the purposes mentioned in Art. 40 at the disposal of the Company at its domicile.

Art. 40.

In the event of the dissolution of the Company, in particular in the event of its winding-up, the patent-rights transferred to it, in as far as they may be in force at such time, shall relapse to the Compagnie Continentale Edison in Paris gratis.

Art. 41.

Besides the profits (beneficial interests) mentioned in Art. 19 granted by the Company to the Compagnie Continentale Edison the Company is bound semi-annually upon balancing its accounts, to discharge the following royalties to the Compagnie Continentale, payable at its cashier's office:

a) On every lamp used or sold by the German Edison-Company or parties holding licences from them or by Messrs. Siemens & Halske by virtue of the Contract mentioned in Art. 35, independently of their light power, 16% per cent of the cost price for the time being, at which the German Edison-Company manufactures its lamps or procures them from a foreign Edison Company; in no case however more than 25 Pfennigs; such lamps however as Messrs Siemens & Halske, as also the German Edison Company themselves shall use within the province of their own business and manufacturing premises in accordance with the foregoing Contract to be exempt from this royalty.

b. A royalty for every incandescent lamp lighting execute d within the German Empire by the German Edison Company or their holders of licences, or by Messrs. Siemens & Halske by virtue of the contract aforesaid; this royalty shall be paid for every machine-horse-power equal to 75 Kilogram metres per second actually used in such incandescent lamps. The amount of



horse power to used in lamps shall be determined in accordance with the electrical system of measurement.

The royalty on an installation shall accordingly amount to 12 1/2 Marks per horse-power for the first 50 horse-power and for every horse-power beyond that 16 Marks; said royalty shall not be paid on extraordinary installations of a merely transient nature. In installations of mixed (incandescent lighting and arc-light-lighting) the royalty shall only be paid for the horse-power consumed in the incandescent lamps.

Royalties in respect of the lamps and dynamo machines so used or sold by the Company shall be due at the end of the current half year, while these royalties on lamps and dynamos sold by Messrs. Siemens & Halske in pursuance of the aforementioned Contract as also by any of the Company's holders of licences shall be discharged every time immediately on receipt. The German Edison Company will furnish the Compagnie Continentale of Paris with a monthly return of current-producing machines applicable for incandescent lighting sold in Germany by them or by their holders of licences or by Messrs. Siemens & Halske, giving full details.

This royalty shall however only be paid once on each horse power and on each lamp used in incandescent lighting.

#### Art. 42.

As long and in so far as the Company shall not be in a position itself to manufacture the machines, apparatus, utensils and materials or any portions of them, employed in the installation of the Edison incandescent Light-System, or have them manufactured by Messrs. Siemens & Halske, such period however not to exceed the duration of a year, the Compagnie Continentale and the Société Electrique of Paris shall furnish the Company, at cost-price, with all the machinery, apparatus, utensils and materials requisite in any manner whatsoever in applying the Edison system.

The lamps shall form an exception here, it being agreed that they shall be supplied to the German Company at the same price as to the Compagnie Continentale and the Société électrique of Paris, viz. f. o. b. New-York.

#### Art. 43.

The Compagnie Continentale engages to furnish the German Edison Company at the cost of the latter with the necessary staff of hands for the construction of installations or Central-stations, in particular the technical staff.

#### Art. 44.

The Compagnie Continentale will at all times punctually pay to the German Patent Office all fees due on the patents specified in Articles 3 and 36, and forward the respective receipts for such payments to the German Edison Company not later than a month before the expiration of the last term of grace allowed.

#### Art. 45.

The Compagnie Continentale of Paris shall be entitled to appoint two permanent commissioners to guard its rights and interests towards the Company.

The said Commissioners, in as far as they are not members of the Board, shall be admitted to the participation of the latter in the profits, and shall enjoy, in as far as it is a question of protecting the contract-rights of the Compagnie Continentale, all the rights of revision and control conferred on the members of the Board.

#### Art. 46.

The provisions of this Section of these presents cannot be altered without the sanction of the Compagnie Continentale of Paris.

#### Art. 48.

The original (constituting) General Meeting, irrespective of its other statutory powers, have the right to determine upon the entry of the Company into the Contracts specified in Art. 35. It shall moreover elect the Auditors and seven or more members of the Board, who, if not less than seven of them be present, shall forthwith, and without giving the absent members notice of their election, or inviting them to attend, be authorised to proceed to elect the Managers, and Managing-Clerks holding powers of procurement, as also to elect the Committee and organise it by

appointing its Chairman and Deputy Chairman, finally moreover to delegate members of the Board temporarily or permanently into the Management.

## Art. 49.

Should these presents, in order to qualify them for due entry on the Trade-Register, need any modifications, such members of the Board as are recorded in the Minutes of Proceedings of the first constituting General Meeting, as residing in Berlin, shall be authorized to make the requisite alterations, and submit them to the Judge of Commerce. The original subscribers shall one and all submit to such alterations. Members of the Board may, to this intent, allow themselves to be mutually represented by a simple power of attorney for substitution, so that it may even suffice, if only one of said members of the Board, furnished with powers of substitution from the others, make such alterations.

1883-03-16

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme 459  
d'Honneur  
PARIS 1881



Thos. A. Edison &

Ivry-sur-Seine, le  
16 Mch 1883.

New York

My dear Edison, You letter of 3<sup>rd</sup> Mch to hand. I have no contract with the companies here, but it is generally understood that it would take me about 3 years to get things under weigh. ~~how~~ Everything goes well as long as I continually boost it but if I should leave here before we have a Central Station working in Paris I really believe it would go to the devil. I shall be over this spring for about a fortnight to glean all I can before starting the Station here, and then if necessary we can talk it over.

Yours as ever -

Chas. Batchelor

1883-03-16

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme 407  
d'honneur  
PARIS 1881

Ivry-sur-Seine le  
16 Mch. 1883

M<sup>r</sup> A Edison &

New York

My dear Edison, Your cables to hand as follows:-

15 Mch. "Can file 59 if patent for 15 years and full fee paid otherwise jeopardize american patent."

also:-

15 Mch. - "Bergman urgently needs work. greatly improved socket 10 percent cheaper try send orders"

As regards the first the full fee will be paid of course -

As for second I will try and do something in a day or two

Very truly yours:

Chas Batchelor

Form No. 2.

1883-03-17

# CABLE MESSAGE.

## THE WESTERN UNION TELEGRAPH COMPANY.

All CABLE MESSAGES received for transmission must be written on the Message Blanks provided by this Company for that purpose, under and subject to the conditions printed thereon, and on the back hereof, which conditions have been agreed to by the sender of the following message.

THOS. T. ECKERT, General Manager.

NOBVIN GREEN, President.

NO.	SENT BY	RECD BY	CHARGE
21	M	Am	6 Berlin

Received at FILED AT 854 BROADWAY, N.Y. March 17 1883.

To Edison N.Y.

Edison 65

Einverständnis.

Edison

*(Circular stamp)*

*(Large circular stamp)*

Vienna

1883-03-22

J. Schwedlergasse  
Briinn

3/22/83

S. Manuel Esq  
N.Y.

My dear Sir

I have received your favor of the 5<sup>th</sup> instants and offer my thanks. You may tell Mr. Schan that I am about to start a small lamp factory here in order to protect the patents. Also ask him if he would not like to send me a pair of his motorograph telephone as I should like to exhibit them here in Briinn and show them to the speaking telephone as it would increase the excitement already being felt. I should like to try some experiments with it in the theatre.

Wm. W. ...  
to get ...  
to ...  
to ...

1883-03-22

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital : 4,000,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'honneur  
PARIS 1881

IVRY-sur-Seine, le 22<sup>ème</sup> Mars 1883  
5, RUE DU PARC.

*Handwritten:*  
Paris  
Mott  
Credit  
debit  
Personal  
Bataillon  
Edison  
New York

My dear Edison

I have collected from Lenthal 200 francs  
for your account; please debit my 'G' with \$200.

I acknowledge your call of today as follows

Station credit urgently needed

Call of 2000 accounts mailed tonight

Ed. S. Industrielle calls you today \$2000 and with of course,  
notify you of it.

Yours faithfully,

*Charles Bataillon*

1813-03-24

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1.500.000 Francs

Grand Diplôme  
d'Honneur  
PARIS 1889

Ivry-sur-Seine, le

24 Mch 1883

My dear Edison,

When in Berlin I  
bought for you the back numbers of the  
"Elektrischer Leiterschritt" which are  
being bound here and which I shall  
send you when I get them — It was  
also apparent to me that they would like  
to have you a member of the "Elektrischer  
Verein" and that Dr Werner  
Siemens would propose you. I therefore  
prepared a form, and if you will please  
sign your name where I have put V. A. S.  
in lead pencil, + then direct it to  
Emil Rathenau 5 Bickhorn Strasse  
Berlin he will see to the rest of it —  
It will secure you a copy of the journal  
every year.

Yours "Bates"



Form No. 2

**CABLE MESSAGE**

1883-03-24

**THE WESTERN UNION TELEGRAPH COMPANY.**

All CABLE MESSAGES received for transmission must be written on the Message Blanks provided by this Company for that purpose, under and subject to the conditions printed thereon, and on the back hereof, which conditions have been agreed to by the sender of the following message.


THOS. T. ECKERT, General Manager.

NORVIN GREEN, President.

NUMBER	SENT BY	REC'D BY	CHECK
204	R	R	9 Berlin 753

Received at FILED AT 854 BROADWAY.

Mar 24 1888.

To:  Edison NY  
Edison 25 Fifth Avenue  
Depeschiret ob Speyer  
Oder Seligmann Trassiret

Branch From:

Edison

Telegraph if Speyer or Seligmann draw

Form No. 2

**CABLE MESSAGE**

1883-03-25

**THE WESTERN UNION TELEGRAPH COMPANY.**

All CABLE MESSAGES received for transmission must be written on the Message Blanks provided by this Company for that purpose, under and subject to the conditions printed thereon, and on the back hereof, which conditions have been agreed to by the sender of the following message.


THOS. T. ECKERT, General Manager.

NORVIN GREEN, President.

NUMBER	SENT BY	REC'D BY	CHECK
20	in h	R Berlin	154

Received at FILED AT 854 BROADWAY.

Michrs 1888.

To:  Edison NY  
65 5 ave  
Trassiret 3200 nicht brief  
folgt.

Edison

Do not draw 3200; - letter follows

1883-03-28

SOCIÉTÉ ÉLECTRIQUE EDISON

SOCIÉTÉ ANONYME

Au Capital de 1 million de francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Paris 1881

GRAND DIPLOME D'HONNEUR

ADRESSE TÉLÉGRAPHIQUE

EDISON, PARIS

Paris, le March 28. 1883.

33, Avenue de l'Opéra

Mrs. A. Edison Esq  
New York.

Dear Sir,

We beg to enclose herewith translation of a letter received from the Italian Committee referring to the last invoices sent to them and amounting in total to about \$ 9600. In consequence of these contents the Italians have only opened credit of \$ 3325. as we have cabled to Mr. Wallenstein yesterday and we are waiting for your answer to the enclosed letter before making further reclamations in Milan.

We have opened further credit for shipments to be made for our account, and we understand that Mr. Wallenstein has paid you about \$ 3000.

1883-03-28

The day before yesterday.

If this answer represents the 6000 B lamps ordered on the 20<sup>th</sup> of February and 16<sup>th</sup> of March, the only thing which will remain to be sent are the different specimens of meters ordered for Antwerp.

Please confirm the contents of this letter.

About the 4 C for Berlin, we have no exact news yet to give, because our German friends are still waiting for your and the Light Co.'s ratification to begin business.

We remain

Yours truly,  
SOCIÉTÉ ÉLECTRIQUE BRUX.

Louis *W.*  
Administrateur délégué

1883-c3-21

Translation of a letter to the Compagnie  
Continuata Edison by the  
Comitato per le applicazioni dell'Edi-  
-cità Sistema Edison in Italia.

Milano 21 March 1883

Gentlemen:

We acknowledge the receipt  
of your favor of the 16 & 17 March and  
of your cable of to-day.

You send us some new invoices  
from M<sup>r</sup> Edison, and you ask funds  
for about \$4600.

As we cabled you to-day we shall  
discuss this new demand of M<sup>r</sup> Edison  
in the next meeting of our Committee,  
which will take place Friday, and  
we give you here below the observations  
which we shall submit to our Committee  
on the demand in question.

1<sup>o</sup> M<sup>r</sup> Edison has sent us 6 regulators for  
C. Dynamon, when you perfectly well  
know that we only have 4 such dynamon.

This makes a difference of \$42.26  
packing included.

2<sup>o</sup> M<sup>r</sup> Edison has sent us 12 feeder-regulators,  
and Prof. Colombo has only ordered 8  
according to the letter sent to your M<sup>r</sup>?

1883-03-21

in New York,  
Bailey of which we have a copy, this  
makes a difference of \$1,100, packing  
included.

We do not count the freight and  
Custom expense, which has caused us  
this exaggerated shipment not made in  
conformity with our order.

3. In Mr. Edison's invoice of 13 Nov 82,  
there is a mistake on the content of  
the case 67, which according to the note  
given to Mr. Tattersall by Messrs. Bergmann  
& Co., and as we have found it ourselves  
contained 246 feet of No. 2 conductors  
and not 143 1/2 feet of No. 2 and 102 1/2  
feet of No. 1 1/2 as it is marked in the  
invoice, this makes a difference of  
\$92.35.
4. We have cabled and written you on the  
6th January to order for us 6.5 metres  
of copper conductors of the diameter  
of the tubes 2 3/4, to the contrary Mr.  
Edison has sent us 6.5 metres tubes  
No. 2 3/4 (his invoice of 12 February)  
with all the accessories, this makes a  
new useless expense of \$414.98.
5. There remains the question of the  
Birmingham and Viers motors, amounting  
with the bases to \$3,927.40, this is not  
the result we anticipated from the negotia-  
tions made by you and by Mr. Bailey.  
Mr. Edison has cabled us a few weeks

[ENCLOSURE]

1883-03-21

ago that he would leave this question  
to be settled by future arrangements.

We cannot understand this prompt change  
in his opinion.

There is then a total amount of  
\$42,484.45 on which we must call the  
attention of our Committee before  
we can open the new credit which is  
claimed.

We are etc. etc.

Comitato etc. sinistra Edison.

Sigurd. S. Rava.

341883-04-02

SOCIÉTÉ INDUS<sup>TR</sup> & COMM<sup>ER</sup> EDISON

Société Anonyme, Capital: 1,500,000 Francs.

100, Rue de Seine, 5, Bâtim<sup>en</sup>t du Parc

Grand Diplôme  
d'Honneur  
Paris 1881

Joseph

Apr. 2<sup>n</sup> 1883

Mr. Edison & 65 5<sup>th</sup> Avenue  
New York

My dear Edison,

I have received  
from Stibel 250 frs. All 1<sup>st</sup>  
for your account. Please  
debit my account therefor  
with \$48.55

Truly yours

Chas. Batchelor

1883-04-02

Mr. Edison,

I went through the German contracts yesterday. They  
are very complicated and Mr. Bailey's letter is not very clear.  
But I think I understand them fully and will take them along to  
show them to you on the cars coming back on Wednesday, when we  
will have all day to talk and examine papers.

OR

S. B. Eaton

April 2nd. 1883.

per Mc.G.

1883-04-03

Milan  
Italy  
April 3<sup>rd</sup> 83

Thomas A. Edison Esq.

Dear Sir,

Last night I  
measured the resistances to  
Earth of the field magnets  
and Armatures of two of  
the Dynamos. The necessary  
to ground or true was from  
700 to 25,000 Ohms. One  
magnet of last machine  
reached the lower limit.  
This very low insulation is  
due to the dampness to  
which they were subjected.



the shipment and after their arrival here. Some of the cases were wet through and through from the exposure. They must have been exposed to the weather in changing steamers at Antwerp and in the shipment from Genoa. Although the Armatures were also exposed to the weather as shown by the witness. If the felt protection got the Japanese paper absorbed no moisture as did the tape on magnets and they each measure over 50,000 ohms. All the wooden parts insulating rump on bush holders etc etc were too wet to be used and had to be replaced. The Dynamo room being

below the level of the ground the walls are very damp. I found it necessary to put a layer of asphalt over the trucks and then place the cleats holding the conductors against it. From the nature of the mortar used it is impossible to drive any nails into the walls for holding the cleats. Iron clamps are plastered into the walls to which the cleats are fastened. The Arrington & Sims Engines with Base Plates have arrived and they are now being fitted up. In fact the A.V.C. and the Porter Engine with Plates there is a set which

is not shown in the drawing and which makes it impossible to bolt the Engine Base Plate to Dynamometer Plate without raising both to get under them. The int. adds very little to strength and might with advantage be left out. The Safety Valve supplied with B. & W. Bolts not being sufficiently large and of a type not allowed by the Government Inspectors it was necessary to order new & larger ones from Glasgow which will delay the first lighting up until the latter part of May. The feeder Regulators sent from New York are in order and will probably

be here in a short time. I have heard nothing from the Central Station as to what has been done in this respect there. The feeders here have not Galvanometer wires and the difference in drop on different feeders would have to be measured either at feeder boxes or at points very near to them. I will start up without them having arranged circuits as do to be able to supply them whenever they may be necessary. Am afraid that when the Station is left in the hands of the Combats it will be in the hands of rather poor men. There are plenty of young Engineers to hold on but they are all afraid to take hold and besides

1893-04-03

have not a particle of  
 practical ability in any  
 direction. I had thought  
 about Kirchhoff's paper  
 but not one of them  
 can set up a Wheatstone  
 Bridge. Prof. Colombo has  
 broached the subject to me  
 of experimenting with vacuum  
 tubes with a view of using  
 them at the station.

The people here are very  
 anxious to manufacture  
 every thing themselves and  
 they are now making cut-out  
 sockets, safety catches &c.  
 Dynamics are also being  
 experimented upon.

Please advise me of any  
 improvements in the  
 running of the Station  
 New York Please send

Enclosed copy of the  
 bulletins of the  
 Soc. Sci. Ital. 1892  
 Prof. Colombo  
 via S. Pietro  
 Milano  
 Italy



HÔTEL D'ANGLETERRE  
CH. MATTEI

Bathwick 1883-04-08  
Bathwick B. 8 Apr 1883.

My dear Sir,

The machine No 32, which was placed in the Station here has worked every night from dark till daylight since Jan 5<sup>th</sup> 1882, or over 5200 hrs. Of the first "in" lamps there is one still burning, & ~~is~~ burned for 5020 hrs. the record has been accurately kept by the R. R. Division, and the average life of that first lot has exceeded ~~500~~ 830 hours. They have always kept them at 16 candles by measure. — They have never had a stoppage of any kind — the installation at the new station that we are making is 1200 lamps & will be very complete.

Yours

Batchelor

He said they were made of  
tar treated with sulphuric acid  
I tried to get information but he  
knew no more - I broke one of  
the carbons and with the aid of a  
small glass the fracture looked  
glassy - I suppose he pans the  
tar on a plate and rolls it out  
to a certain thickness & then  
treats it with  $H_2SO_4$  then I suppose  
you can punch it out -

- Now what I think is this: -
- 1 You will have a ~~far~~ carbon of  
infinitely denser structure from  
tar than from fibre.
  - 2 It will stand a much higher  
meanderance per unit surface  
being of glassy fracture it will  
not occlude so much gas &  
will take less time on pump
  - 3 I have bought a few and will send  
you some. I shall try them  
properly at  $1\frac{1}{2}$  as well  
the carbons lo. is well & so all  
as ours and send them tougher

11 1873-04-10  
This April 10 1873

My dear Edison,  
Whilst in  
Strasbourg the other day  
I found some lamps made in  
Germany by a man in the  
glass district - ~~seeing~~ they  
were an infringement on ours  
I bought some & took them to  
a friend of mine who has one  
of our machines & tested them  
I found they would stand any  
candle power and in the p.m.  
I broke I noticed that in all  
the carbon was intact and  
not even blackened - I found  
my friend knew all about  
them & told me what the  
carbons were made of but neither  
he nor the maker know anything  
about the economy of them

As far as I can understand this man  
has patented this nowhere as yet but  
in my private opinion he knows more  
about what is wanted in an incandescence  
lamp bulb than any body else that  
is working on the subject on this side of  
the water

Yours "Patch"

In Germany they have just put on a  
duty of 600 marks per 100 Kilo  
on lamps which makes 8 cents  
each in very nice  
will kill my little negotiation  
towards having all come from America  
at present

C. B.

1883-04-11

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital : 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'Honneur  
PARIS 1881

Ivry-sur-Seine, le 11<sup>e</sup> April 1883.  
5, RUE DU PARC.

Referred to Halzer Upton & Ryker  
for an answer. This is the regular monthly  
# ~~How~~ C. S. Edison Co.  
New York 3

Complaint you better have a  
padder with at least

My dear Sir, a surplus of lamps over <sup>is over</sup> ~~is over~~  
what is actually essential to continue ~~business~~  
We have just received from the lamp factory

a case marked E3 ① and I am sorry to say that through  
the very careless way in which it was packed, half of the large  
carbon moulds have been broken; they were very stupidly put into  
the plating trough without a cover whereas the little ones were  
put in a box made for the purpose and consequently very few  
of the latter were broken. I think you must do something to  
prevent the lamp factory from packing our things in such a  
stupid manner.

We have also to complain that we got no notice of the shipment  
of this case and as we know nothing of its contents we would  
have had any amount of trouble if the signor had not had  
a letter from Grady giving a vague description of what  
was being sent. Why did not Upton give us a detailed list  
of this shipment? The impression put on the cover of the  
box was of no good to us and I really expected after all  
the recommendations I made when there that this would  
have been attended to properly

1883-04-11

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'honneur  
PARIS 1881

Ivry-sur-Seine. le 11<sup>th</sup> April 1883  
5, RUE DU PARC.



(Cont.?)

20  
21

Again, this morning we receive a letter from our agent  
at Havre, advising us of the arrival of 4 cases marked  
CB 1 + CB 219/21; it is most disquieting to  
receive such an advice without knowing anything of  
what goods are coming.

Why on earth don't they send us, as we have so often  
asked ~~them~~ the marks numbers & detailed contents of  
each package sent, together with their separate net &  
gross weight? I am convinced that if the people over there  
knew the trouble we are having through the gross care-  
lessness in which they make our shipments more attention  
would be paid to our reiterated demands for full information.

Yours truly  
Charles Batchelor



Encl.  
 Meadvicoff 3 Credit St. N.Y.  
 1883-04-12  
 Thomas A. Edison Esq. 65 Fifth Avenue, New York.  
 12 April 1883.  
 for Inventor  
 HAWES  
 W. H. H.

My dear Sir,

Enclosed herewith please find sample of Carbon made from  
 Common tar in Thuringia, in Germany, and which is said to have a very  
 long life in lamps, which are made there in small quantities by the inventor.  
 It is said to be very cheap.

While I was in Berlin Mr. Schultz, who has invented an  
 Accumulator engaged to send you a sample of it with the request that  
 you would examine it and see whether you thought it good, & whether  
 you can suggest any improvement on it. It has been under examination  
 by Siemens & Halske during quite a long time, and they report the results  
 much better than from any others that they have tried. Mr. Schultz claims  
 also that it is cheaper of manufacture and more durable. Prokes and  
 I own the Patents for it, with the exception of Germany, and if you find  
 it good we will propose a business arrangement with you for the States.  
 He will send it addressed to you at 65 Fifth Avenue. Will you please  
 give instructions to care properly for any box arriving for you from  
 Germany, and look after the opening of it, so that no accident happens.

We have much occasion for any material you may  
 be

(2)

1883-04-12

be able to furnish regarding the action of Insurance Companies in the States in Connection with Lighting by the Edison or other Systems. This will be utilized in several Countries from which we have received applications for information. An article was published in the 'Scientific American', the date of which I cannot get, stating that 23 fires had taken place in the States through installations of Electric Lighting, 8 of which were very serious. Will you send me information and answer to such statements?

I have been away here since finishing Berlin. I came here with the idea of doing some business with the Electric Contract & Maintenance Company, in which Foucault is a Director. He has received a concession for the lighting of the Grand Opera and the Theatre Francaise at Paris, and has also installations to make for a small Central Station at the Palais Royal and the Bon Marche'. Our Paris friends propose to bring out a Company of 10 millions of francs for Paris, from which the Compagnie Continentale was to receive 500,000 francs in cash and 30% of profits of a Comp<sup>y</sup> to be formed for the City of Paris. - I objected to these conditions as insufficient, especially as Paris is the best City for Electric Lighting in the world, and proposed to see if negotiations could not be made with the above named Company for the specific installations without any engagement of the entire City. - On arriving here I was satisfied after 3 or 4 days that no business of that sort could be done especially as the negotiation between the contract Company and the English Edison Company had at the moment of my arrival entirely failed.

I have been much occupied for some time past with the reflection that no Capital can be found in France for Electric Lighting

enterprises

1883-04-12

Enterprises outside of the Country, though all the Capital for which profitable employment can be found in France itself can be readily found at Paris. But in Countries like Austria, Russia, Italy, Spain, and even Germany, local Capital cannot be engaged to any great extent in carrying out such enterprises as seem now opening to us. Beside that in 2 or 3 of the Countries it will be very slow in flowing into such affairs, and this will give time for the formation of local combinations. I therefore thought, on finding that nothing could be done with the present company, that it might be possible to form a general Continental company, in relation with and <sup>operating</sup> ~~forming~~ in point of fact, the French companies, while maintaining the organizations of the Compagnie Continentale, so as to do business in France under a French organization.

The French companies have done their work well up to this point, and have carried it where it seems possible to realize a company with a capital large enough to carry out at first hand all the enterprises offering in various parts of the Continent.

I commenced at once sounding rounds for such a company. There are two difficulties in the way of realizing such an enterprise at this moment in the English market. First, the loss of so much money a year ago in all sorts of Arc Light, Lane-Fox, Maxim, and Swan companies that were formed with total Capitals amounting to about eleven millions of pounds sterling, about the whole of which is an entire loss, and this has sickened the general public concerning all affairs for Electric lighting. Second, the inefficiency of the management of the English Edison company has indisposed a great many people who otherwise would be very well disposed. I have therefore passed some 3 weeks in constant talking to the persons whom I have looked into to show them that the results gained by the English

(4)

1883-04-12

English company were not to be taken as a measure of our situation on the Continent, and I have done this with good effect, not having made a single failure in the case of any gentleman I have commenced talking to. One of the features of the business now under way, if carried out, will be the purchase of the Iron Patents for the Continent. The Iron company has a much more energetic organisation than yours in England, and is quite as influential financially. It would be absolutely impossible to organise a General company, such as I have in view, in face of an opposition by the Iron people in the London market. They have some hard fighters and speculators who will very gladly risk £50000 for a reasonable chance of doubling it. I therefore commenced a negotiation with the Iron people through Mr Dillier, the organiser of the English Bell Telephone Co., and met directly after Mr Forbes, the chairman of the English Iron Co. and also Mr Morrison and Mr Mulholland, the latter a very influential member of Parliament, and the former one of the largest capitalists in London. I finally agreed with Dillier that if he turned in with us with his financial friends, they should get £85000 out of the pool. As the matter stands now a company will be formed with a total Capital of £5,000,000, with a first issue of £1,500,000; the capital of the 3 French companies would be refunded, and the companies themselves, with the exception of the Compagnie Continentale would be merged in the English company. £100,000 would be paid in Cash, or in Cash and Preferred Shares, and somewhere from 33 to 50% of the entire profits of the business of the company would be given to the Compagnie Continentale as consideration for the Patents etc. All the contracts made up to the present time would be turned in to the English company.

The

1883-04-12

(5)

The organization of the Compagnie Continentale will be kept up, with the persons most active in its administration continued in representation of the English company, and 2 or 3 of its Directors would be Directors in the English Comp<sup>y</sup>. - The Presidents of the Italian, Belgian and Dutch Syndicates would also be members of the Board, and I should try also to bring in to it Sr. Hermer, ~~the~~ <sup>the</sup> ~~French~~ & Dr. C.W. Siemens.

I am going to Paris to-morrow night, to talk over with our friends there the scheme in its present form. - They have already signified to me their acceptance of it in general terms.

The French market has been very bad for the last 15 months, with no visible signs of improvement. By delaying the formation of a fo<sup>r</sup> Paris, the chances for making up an English ~~company~~ organization are much better, and for that reason I come direct to London from Berlin at some personal sacrifice, because I was certain that it would be difficult to resist the pressure in favor of the Paris fo<sup>r</sup> if I went there first. Dillier went to Paris this morning, so that as soon as I have fully explained the matter to our people we can take up the negotiation.

I have not advised you concerning this matter, because until yesterday I did not feel great confidence in the result. Although everyone had been favorably impressed by my presentation of the affair, it was not until yesterday that an attempt was made to get down to any definite terms and scheme of organization, and I had fear that on arriving at that point the thing might go all to pieces. It seems however promising enough now to warrant my writing you so definitely about it.

I assure you that the opportunities for observation and  
reflection

(6)

1883-04-12

Reflection that I have had during my long absence from Paris, and freedom from the pressure of daily routine duties have satisfied me that the policy herein proposed will result most advantageously for my interests. The Creditmob. Cash dividend that would be available and the large amount of Townsin Shares in such an organization as that here proposed will give a large value to my Shares. If the company is brought out it will be immediately after the last Stock Exchange settlement in the month of May, i.e. the very first days of June. Probably the same will be guaranteed by Syndicate of Bankers made up in London, Paris, perhaps also Amsterdam, Berlin & Milan. A Commission of 5% will be paid for this, and the amount coming to us will be increased by enough to cover the guarantee fund.

I beg that immediately on receipt of this you will Cable me addressing Heraclite, Paris, <sup>or Bailey, Wash. (according to what the time is there).</sup> your impressions regarding it.

Should my Paris friends be favorable to the plan I shall come back here the last of next week and remain until the company is brought out. I propose to work the press all over the Continent, in the first place showing the 'rationale' of the speculative movement a year ago, that it was an advantage taken by speculators of an ignorant interest and excitement created in the public mind by the Paris and the Crystal Palace Expositions; this to be followed by an exposition of the actual situation of the incandescent system, the results so far obtained in the States and in Europe, and the enterprises which are now offering on the Continent, and which can be taken up immediately at fair prices and with good profits. Will you come to be prepared immediately all the data that can be met for such publications from your own experience. Do not have any delay in this, because it will be necessary to act very promptly. - I shall Cable you  
within

1883-04-12

(7)

|| Within a day or two of the time that this letter will come to hand advising you  
whether our Paris friends accept the plan set forth, and whether I am in  
London to work it, so that you may go on with entire confidence, and I  
beg with very great expedition in preparing and sending forward the material  
desired.

Will you kindly communicate this letter to Major Eaton, as I  
shall not be able to send duplicate.

I am,

Very truly Yrs,  
J. D. Bailey

Has it  
come

J. D. Bailey

321883-04-16

SOCIÉTÉ INDUS<sup>tr</sup> & COMM<sup>er</sup> EDISON

Société Anonyme, Capital : 1,500,000<sup>fr</sup>  
à Ivry s/Seine, 5, Rue du Parc.

Apr 16.83

Batchelor

Grand Diplôme  
d'honneur  
PARIS 1881

Ivry, le 10<sup>e</sup> April 1883

M<sup>r</sup> H. A. Edison

N<sup>o</sup> 85 5<sup>th</sup> Avenue

New York

Dear Sir:

As I am often away from  
our works travelling in different  
parts of Europe I shall be  
obliged by your sending all business  
communications direct to the Société  
Indus<sup>tr</sup> & Comm<sup>er</sup> Edison so  
as to avoid all delays

Yours truly  
H. A. Batchelor



1873-04-16  
Paris 16<sup>th</sup> 1873

My dear Cairn I shall leave  
Liverpool on Saturday on the  
"Servia" to have two weeks  
in New York & put up a  
little on Central Station  
matters & things generally

Yours  
"Batch"

7883-04-18

SOCIÉTÉ ÉLECTRIQUE EDISON  
SOCIÉTÉ ANONYME  
Au Capital de 1 million de francs

EXPOSITION INTERNATIONALE ÉLECTRIQUE  
Paris 1881  
GRAND DIPLOME D'HONNEUR

ADRESSE TÉLÉGRAPHIQUE  
EDISON, PARIS

Paris, le 18 Avril 1883.

33, Avenue de l'Opéra

My dear Edison.

The bearer of the present is  
M<sup>r</sup> Oscar von Miller, Engineer  
of the Government of Bavaria, who  
is charged with a mission concerning  
Electric Light.

I recommend him warmly to  
your best reception and I thank you  
in advance for what you will have  
the kindness to do to facilitate his  
studies.

I am, my dear Edison,  
Yours very faithfully,

Chas. Batchelor

So this gentleman as we owe our  
brilliant success at the Exposition  
of Munich — He was there the  
Engineer in Charge and gave us  
a great deal of help.

C/B.

WIEN - (VIENNA) AUSTRIA.

1883-04-24

COMMANDIT-GESELLSCHAFT FÜR ANGEWANDTE ELEKTRICITÄT  
BRÜCKNER, ROSS & CONSORTEN.

*ausw.*

WIEN, 24<sup>th</sup> April 1883  
III. Baumgasse 5

Alleinige Concessionäre in Oesterreich  
für  
Edisons  
elektrisches Belichtungssystem.

Alleinige Concessionäre  
der  
Société des machines magnéto-électriques Gramme  
IN PARIS  
für die  
Erzeugung der Gramme'schen Apparate  
in  
Oesterreich-Ungarn.

ELEKTRISCHE BELEUCHTUNG.

Elektrische Transmission  
der Kraft.

GALVANOPLASTIK.

ELEKTROLYSE.

Mr. Th. A. Edison  
Mentz Park.  
New York.  
Dear Sir

We have the pleasure to inform  
you of a new success of your  
System of electric light. The new  
theatre of the city of Prag will be  
lighted by 1700 A. lamps, seven K dyna-  
mos. The theatre shall be opened on the  
16<sup>th</sup> of this year.

We are dear Sir  
Yours respectfully  
Anton von Stauder

The number of dynamos now working in Austria  
(except Hungary) is 5 K. 6 L. 1 B & 3 E dynamo.  
orders are 8 K and 1 L dynamo.

Brief-Adresse: Commandit-Gesellschaft, Wien, III. Baumgasse Nr. 5. — Telegramm-Adresse: Brücknerross, Wien, Baumgasse 5.

T. A. EDISON.

1883-05-04

Cable

Menlo Park, N. J.

May 4 1880.  
S.P.M.

Edison Menlo Park N. J.

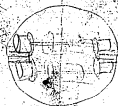
Have obtained concession on  
condition of delivery samples  
before June first if samples  
impossible drawings may  
perhaps answer Cable when  
machines will leave on their  
arrival can make you definite  
offers

Wiedemann

39 Geneva  
Ans paid 20

Ms  
May 4/83

Cablegram from  
Paris 2



1883-05-15

Société d'Appareillage Electrique

Genève, le 15 Mai 1883

Messieurs Edouard Edisons

New York

85 Fifth Avenue

Messieurs

Nous avons reçu en son temps votre lettre de C. Nord & C. avec plaisir.

Nous vous avons informé que le traité passé entre nous, Edisons, Gulton et Cherbuliez & la Société de l'Industrie des Gaz (société que nous avons ratifiée) était annulé.

Notre lettre du 14 Mars vous avisait que nous avions obtenu de cette Société par Actions, attendu que le contrat signé par nous le 9 Septembre 1880 avec M. B. Z. & C. rentrait en vigueur.

La nouvelle Société d'Appareillage Electrique a été créée en lieu & place de M. B. Z. & C. signifiant que le contrat passé avec vous.

Les Actionnaires réunis en Assemblée



Nous n'avons reçu que 420 lampes  
de S. S. bougies, nous vous prions de nous en  
adresser encore 450 - (Quatre cent cinquante).

Vous leur avez aussi envoyés 1500 -  
(quinze cents) lampes de 104 Dix bougies, nous  
n'en avons encore point de cette catégorie.

Nous vous faisons de nous les  
regarder dans des barils de 150 à 300 lampes de  
préférence aux grands tonneaux contenant 300 à 1100  
lampes.

Nous espérons que vous nous expédiez des  
lampes ayant un charbon bien régulier & se tenant  
bien droit au milieu de l'ampoule de verre car nous  
avons reçu par les envois précédents non certains  
nombre de celles-ci ayant des charbons défectueux.

Notre lettre du 6 Mars nous annonçait la  
prochaine arrivée de M<sup>r</sup> Goddard, nous sommes très  
allusés que nous le recevions de notre milieu, car  
à l'honneur ou nous écrivent, nous n'avons pas  
encore eu le plaisir de le voir.

Nous apprenant à l'instant que M<sup>r</sup> Goddard  
est actuellement en Italie.

Nous n'avons pas encore reçu les objets  
signalés précédemment devant nous être déposés une  
semaine après notre lettre, soit le 13 Mars environ,  
nous espérons qu'ils sont en route & nous  
parviendront incessamment, quoiqu'il y ait deux mois  
écoulés depuis cette date & que vos envois nous  
parviennent cinq semaines environ à partir du jour



1883-05-15

## Société d'Appareillage Electrique

Genève, le 15 Mai 1883

Du jour de leur expédition,  
 Nous avons écrit à M. H. Bergmann N° 6  
 de votre ville, leur demandant de nous adresser  
 le nouveau catalogue qu'ils viennent d'éditer.  
 Nous avons lu avec plaisir le journal  
 que vous avez pris la peine de nous adresser &  
 nous ferions de nous adresser en double exemplaire  
 les Numéros depuis le N° 46 au fur & à mesure de  
 leur publication.

Tant le cas si vous auriez un  
 Dictionnaire conventionnel, pour les correspondances  
 télégraphiques nous vous ferions de nous l'adresser.  
 Vous pourriez, comme par le passé,  
 toucher le montant de votre commande chez  
 M. H. A. Bédin N° 4 de 7 Rue.  
 Veuillez agréer, Monsieur, l'assurance  
 de nos sentiments distingués.

Le Secrétaire

A. Roubelin

Le Président du Comité d'Admin.

A. Bédin


 A. Bédin  
 Président du Comité

1883-05-10

Translation

Geneva May 15/83

Mr. T. A. Edison.

Dear Sir

Your letter of March 6<sup>th</sup> came duly to hand  
 & contents have our attention.

We have notified you that the contract  
 between us: Widemann, Lurinden & Oberbühler and the  
 Gas Co (contract which you had ratified) has been cancelled.

Our letter of Jan 17<sup>th</sup> advised you that we  
 then organized a stock company, & as the contract  
 signed by you on the 9<sup>th</sup> of Sept. 1880 with Messrs. B. Z. & Co  
 was rendered valid again.

The new company called "Société d'Appar-  
 eillage Electrique" (Electrical Co or Company for Electric Apparatus)  
 was substituted for Messrs. B. Z. & Co. the signers of the contract  
 with you.

The stockholders assembled at the constitution-  
 al meeting of the 5<sup>th</sup> inst. adopted the statutes of the  
 Electrical Co. whereof we herewith enclose you a copy.

The board of directors comprises the following:

President: Mr. Arthur Richard, engineer & director of the  
 water-works of the Rhône, member also of  
 the grand council of Geneva.

Secretary: Mr. A. M. Oberbühler, one of the signers of the  
 contract with you.

Consulting Engineers: Mr. Theodore Surattini, engineer, Director  
 of the Company for Physical Instruments and member  
 of the administrative Council of the city of Geneva  
 Mr. Caspar Lurinden who is already known to

1883-05-15

and Mr. John Overstag, member of the banking-house Overstag & Luvet of Geneva.

You may be perfectly satisfied that the Board of Directors embraces all the elements requisite for a wise administration promising complete success of our enterprise.

You will perceive in the Statutes, that your interests are fully protected by Articles 6. & 41.

These Statutes conform with the laws in force throughout Switzerland.

As we requested of you at the time when the contract was made between the Gas Co and us, B. Z. & Co we now request that you will write us a simple letter stating that you accept and ratify the transfer by Messrs B. Z. & Co upon the Electric Co of the contract entered into between yourself and the said B. Z. & Co.

Moreover we request that you will kindly mention that you accept and ratify Article 7. of the Statutes concerning the transfers consented to and accepted for the price of Frs 125,000.

And finally we request you herewith ~~to~~ to also declare that you accept and ratify the statutes of the Electric Co.

We note with pleasure that you concluded to reduce the price of Lamps on a portion of our order and sincerely hope that you will apply this reduction to the entire order, that is to say to the invoice of March 1<sup>st</sup> on 4520 lamps, the more so as the order for 10,000 lamps has been reduced to 5,000 by letter of Feb. 14<sup>th</sup>.

We have received 8,070 lamps, or 2000 more than we need for a certain lapse of time. We trust that you will take

1883-05-15

this fact into consideration.

We have only received 420 lamps of 32 c.p. and request you to send us 450 more.

Please send us also 1500 lamps of 10 c.p. we have ~~accepted~~ none of them as yet.

Kindly ship them to us in barrels of 150 to 300 lamps each, which we much prefer to casks containing from 700 to 1100 lamps.

We trust you will ship us lamps containing very uniform carbons, standing very erect in <sup>the center of</sup> the glass-bulb, because we have received in previous shipments quite a number containing defective carbons.

Your favor of March 6<sup>th</sup> advised us the impending arrival of Mr. Goddard. Rest assured that we shall do our best to receive him, but <sup>to the</sup> present hour we have not yet had the pleasure to do so. We have just been informed that Mr. Goddard is at present in Italy.

The goods advised as going to be forwarded to us about a week after date of your letter, or about the 15<sup>th</sup> of March have not arrived as yet. We trust that they are under way and will shortly reach us, although two months <sup>already</sup> have gone by since that date. We also hope that your shipments may reach us in about 5 weeks from the day of their departure.

We have written to Bergmann & Co. of your city for the new catalogue which they have just published.

We have read with pleasure the newspaper which you were good enough to mail us and beg you to mail us duplicates from #216 to the end, as they are

P.R. Top low

Insell  
How about the

1883-05-15

published.

Should you happen to have a cipher code for telegraphic communication (cable use) we beg you will let us have it.

As in the past, you may continue to collect the amount of our orders from Messrs A. Iselin & Co. of your city.

Please accept the assurance of our highest esteem.

(sig) A. Cherbulier  
Secretary

(sig) A. Achard  
Pres. Board of Directors

(sig) Th. Turckheim  
Consulting Engineer

1883-05-17

SOCIÉTÉ ÉLECTRIQUE EDISON  
SOCIÉTÉ ANONYME  
Au Capital de 1 million de francs  
EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ  
Paris 1881  
GRAND DIPLOME D'HONNEUR  
ADRESSE TÉLÉGRAPHIQUE  
EDISON, PARIS

Paris, le 17<sup>th</sup> May 1883.

33, Avenue de l'Opéra

RECEIVED  
MAY 21 1883  
ANSWERED

.....188...  
FILE No.....

*J. W. Swanwick*

Thomas A. Edison Esq.  
New York.

Dear Sir,

Your favor of May 2<sup>nd</sup> duly  
came to hand and we shall  
be pleased to receive your further  
communications about the complaint of  
the *Salina Co.*

We note that you have credited  
our account with:

\$74.63

that you have received from the  
*Salina Brass & Copper Co.* an account  
in their bill amounting to \$74.63.

The affairs we spoke of to Mr.  
Batchelor is not having answered and  
attended to, do so refer especially to  
material and account, as we found  
out that the lamps which were reported  
as missing by our Hamburg agent had  
duly been sent, the mistake came  
from the fact that the quantity of  
lamps marked on the outside of  
the casks was not right, more lamps

On some shipments of high volts  
we put in ten per cent extra lamps  
so as to sure that the full no.  
of good lamps were sent.

L. R. Upton

1873-05-17

being packed in, than marked.  
We wished to point out  
especially regarding the ratification  
by the Edison Electric Light of Europe  
of the contract signed on the 11th July  
1872 with the Italian Committee.

The Compagnie Continentale Edison  
wrote to Major Eaton on this subject on  
the 7th April, and we regret to say that  
up to this date no answer as yet been  
made.

We write again to-day to Major  
Eaton, and will be very much obliged  
if you will kindly see that this  
irregular situation is brought to a close.

We remain, Dear Sir,  
Yours very truly,

SOCIÉTÉ ÉLECTRIQUE, &c.

Administrateur Délégué

S. P. Eaton

The last part of  
this letter refers to matters  
in your hands

Please return after  
reading & disuse



1883-05-22

*Copie* Société d'Appareillage Electrique  
 Geneva, le 22 Mai 1883.  
 Memorandum pour Monsieur Goddard

Nous prions Monsieur Goddard de  
 bien vouloir nous procurer les pièces &  
 renseignements suivants

Demandez à M<sup>r</sup> Edison les dessins  
 anciens & ceux parus jusqu'à présent des  
 machines électro dynamiques de tous  
 les modèles, des sockets de tout les  
 genres, switches, shade & holders, wood  
 materials cut out plugs & caps, coupling  
 boxes, Pendants, Rigid Brackets, Swing  
 Brackets, Electroliers & en général tout  
 les dessins nécessaires à l'exploitation  
 de l'éclairage électrique

Vous adresser au fur & à mesure de  
 leur publications les dessins & écrits émanant  
 de chez de M<sup>r</sup> Edison.

Prier M<sup>r</sup> Edison d'aviser M. M. Bergmann  
 & C. qui nous sommes la St<sup>e</sup> Edison pour  
 la Suisse & de nous faire la même remise  
 qui a la St<sup>e</sup> Edison de New York

Demandez à M<sup>r</sup> Edison la liste des  
 pays exploitant les Brevets Edison & par  
 quelles sociétés.

Demander si la Société d'Appareillage  
 Electrique peut faire des installations vendre  
 des lampes dans les pays où il n'existe pas

1883-05-22 2

de M<sup>r</sup> Edison ou de concessions spéciales.Demander à M<sup>r</sup> Edison Copie de ses  
dernier Brevets, l'envoi régulier de son journalDemander à M<sup>r</sup> Edison de concéder la  
S<sup>té</sup> d'Appareillage Electrique le monopole  
de son système dans les pays où il  
n'y a pas de S<sup>tés</sup> exploitant ses brevets.

Réponses aux questions de M<sup>r</sup> Goddard  
La S<sup>té</sup> est constituée depuis le 5 Mai avant  
sa constitution il a été fait

- 1 Installation de 100 lampes de 8 bougies  
Chez M<sup>r</sup> Roussy fils à Gillamont, près Vevey
- 1 id de 30 lampes de 16 bougies la Baronne  
de Rothchild à Pully
- 1 id de 3 machines de 60 lampes de 16 bougies  
à l'Hospital de Lausanne
- 1 Petite Station Centrale avec machine de  
200 lampes de 16 bougies aussi à Lausanne  
le bénéfice sur ces installations à servir à diminuer  
les dépenses de l'ancienne Société

La Société actuelle a fait 2 Installations  
1 dans ses bureaux Boulevard du Théâtre 8.  
l'autre dans un théâtre concert à Genève

La Société d'Appareillage se propose  
de créer en Suisse des Stations Centrales  
dirigées par des Sociétés locales dépendantes

1883-05-223

de la Société d'App<sup>l</sup> partout on les Compagnies  
 du gaz n'ont pas de monopole exclusif  
 dans les villes on ces Comp<sup>tes</sup> ont seules  
 le monopole de l'éclairage la S<sup>te</sup> d'Appareillage  
 cherchera à transiger avec elle.

Autre ces installations centrales la  
 S<sup>te</sup> établira des installations isolés aux  
 industriels ayant de la force motrice

Nous prions Mr Goddard de demander  
 à Mr Edison de nous adresser une  
 pièce qui nous permettra de prendre  
 en Suisse & de les exploiter tous les  
 brevets de Mr Edison des que la Suisse  
 aura fait une loi sur les Brevets

1883-05-22

TranslationElectric Co. of Geneva.Geneva May 22<sup>d</sup> 1883.Memorandum for Mr. Goddard

We request Mr. Goddard to kindly obtain for us the following documents and information:

Ask Mr. Edison for the <sup>old</sup> designs and those which have appeared up to date of electro-dynamic machines of every model, of sockets of every kind, of switches, shades and shade-holders, wood materials, cut-out plugs, and caps, coupling boxes, pendants, <sup>single</sup> brackets; swinging brackets, electroliers and generally all designs bearing upon electric illumination.

To mail us for the purpose of publication the sketches and tracings emanating from Mr. Edison.

Ask Mr. Edison to notify Messrs Bergmann & Co. that we are the Edison Co. for Switzerland and that they should give us the same terms as to the Edison Co. of New York.

Ask Mr. Edison for a list of the countries where Edison patents are worked and by what companies.

Inquire if the Electrical Co. (of Geneva) may make installations, sell lamps etc in countries where there are no Edison Companies or special concessions.

Request Mr. Edison to grant the Electric Co. (of Geneva) the sole right of introducing his system into such countries where there are no companies to exploit his patents.

August 10  
no  
St. Louis

1883-05-2

Replies to Questions asked by Mr. Goddard

The company is organized since May 5<sup>th</sup> previous to its organization there was made:

1. Installation of 100 lamps of 8 c.p. at M. Roussy, jr. at  
Gillamont near Vevey.
1. do. of 30 lamps of 16 c.p. at the villa of the Baroness  
de Rothschild at Pregny.
1. do. of 3 dynamos of 60 lamps of 16 c.p. at the Hospital  
of Lausanne
1. small Central Station with dynamo of 200 lamps of 16 c.p.  
also at Lausanne

The profits on these installations have reduced the expenses of the old company.

The present (new) company has installed 2 plants: one in its offices Boulevard du Theatre # 8 and the other in a concert hall of Geneva.

The Electric Co. intends to establish Central Stations in Switzerland, under the management of local companies dependent upon the Electric Co. wherever Gas Companies have no exclusive rights or these companies. In places where these companies have the exclusive right the Electric Co. will try to arrange with them.

Besides these Central Stations the company will install isolated plants in factories possessing motive power.

We beg of Mr. Goddard to request Mr. Edison to mail us a document securing for us the sole right for Switzerland for the exploitation of Edison's patents as soon as Switzerland shall have a Patent Law.

RECEIVED  
JUN 5 1883  
ANSWERED

1883-05-24

Zurich, May 24<sup>th</sup> 1883

FILE No. 188

My dear Edward

I fear you began to think I had forgotten my promise to look after your interests in Geneva, but I have been detained in Italy much longer than I expected, by the serious illness of a friend of my wife whom she could not well leave. Not having located my family in England I started out once for Geneva, where I have been for nearly a week, having left there yesterday on my way back to Carlisle, stopping here en route to visit the Swiss Industrial Exposition where the Geneva people have a dynamo at work driving an ice machine. The dynamo in the Exposition Building acting as a motor operated by power transferred

WEST & MITCHELL  
SULLY

Please attend to the Buller matter  
write Swinton that we could send him  
drawings but within the last two  
months have made great improvement  
in the Dynamo so that the 60  
light machine now gives 200 the  
150 light gives 275 and the 250 ork  
gives 400 lights we have a 100  
light machine which we sell to the  
light Co for \$400.

We think that no more improvement can  
be made & the types of machines are  
final, that we advise he order  
machines of each kind.

25 Light 2 prices	200	
50 "	300	free on board
100 "	400	
200 "	750	
275 "	950	will send drawings
400 "	1500	

1883-05-24 2

from another dynamo operated by a turbine wheel in the river, some little distance from the building. They are doing no lighting as the buildings close before dusk.

I found that the Geneva Compy had not been definitely formed until the early part of this month and that as yet they had done but little business, owing to the fact that as yet they had received no drawings or specifications of any kind from you and further because their operations have been interfered with <sup>first</sup> by the Paris people ~~by~~ through Parties in Rome and afterwards by a firm in Vienna "Brückner & Ross, representing themselves as the Agents of the Edison System and offering to sell Edison Lamps at five francs each, while the Suisse Co have been asking 7 1/2 fcs. The Geneva Co. had an arrangement almost perfected to install a large



1883-05-24<sup>g</sup>

Isolated Plant in a Chocolate  
Factory at Neuchâtel a very large  
establishment requiring I think 6 or  
700 lamps, when the parties received  
an offer from Vienna at 5 fcs ea.  
for the lamps which the Geneva  
Co had asked 7 1/2 fcs for. The result  
is that the order is suspended for  
the present. You will learn from  
the copy of a letter which I enclose  
what has been done by the Swiss  
Co to the present time & what  
they propose to do, but they are  
greatly embarrassed for want  
of the drawings of the different  
machines. All those now in  
use have been built by Mr  
Inrettoni from the knowledge he  
derived during his visit to Minto  
Park, and altho' they seem quite  
effective I doubt if they are equal  
to the latest machines built at  
Gyverck St. I send you a copy  
of a letter setting forth the things  
the Geneva people ask for. I send  
it in the original french for  
fear my translation might not

1883-05-244

be sufficiently exact - I trust you will make no delay about sending all the drawings they can possibly need for I think there is going to be a good deal of work in Switzerland and the Geneva Co. ought to be in position to do it - Mr Turretini

Confidently expects the passage of a patent act at this session of the Congress and has taken the necessary measures to protect the Edison interests in case of such action - Please have a full set or rather several sets of the bulletin sent to Turretini immediately and have future numbers sent as published, several copies of each address -

"Société d'Appareillage Electrique, Geneva, Suisse"

Also please have Bergemann send several copies of Catalogue with discounts which I have told the Geneva people would be the

1883-05-24

same as those granted to the Edison Co in New York. They have been getting their supplies of such things through the London Co. at an advanced price & would like to order direct.

I trust you will not neglect to forward the required drawings without unnecessary delay, for they certainly have cause of complaint as Turretini says you wrote all things asked for would be forwarded by me, & I had nothing at all to give them. Some of the best men in Geneva are interested in this matter and will, I think, push the business when they are placed in position to do so.

I have been unable to meet Bailey as yet, I waited several days in London expecting to meet him there and then in Paris where he wrote me he was detained in Berlin, so I had to go on to Italy without seeing him - Patchell <sup>(Bailey)</sup> was absent. He wrote me he

1883-05-24

would be in Milan in March (25<sup>th</sup>)  
and would go from there to Rome  
or Florence if I would let him  
know when I would be at that  
time we would arrange to meet.  
I wrote him at Milan that I  
would be in Rome on the date  
named and would meet him  
there or at Milan or Florence as  
might best suit him. Receiving  
no reply I wrote him at Paris  
about ten days ago rec<sup>d</sup> a reply  
that he had been detained in  
Berlin and was then going to  
London in connection with the  
formation of a new Company  
to exploit the system in Europe.  
I would be detained there till about  
June 1<sup>st</sup> after which he hoped he  
should see me in Paris. I learn  
through Riedemann whom of course  
I met in Geneva that Bailey's  
negotiations for Germany have  
not been successful - he says he  
has been trying to make a com-  
bination with Siemens, but has

not succeeded - what his new Company  
in London is I do not know 1883-05-24

A proposition has however been  
made to Biedermann by two of the  
largest Vienna Banks to form a  
Grand Company for the whole of  
Europe, furnishing all the funds  
required and making a market  
for the stock - asking him to visit  
Vienna about June 1<sup>st</sup> to concert  
measures and offering to pay his  
expenses and those of any other  
persons he may think it advisable  
to bring with him - Turrettoni has  
agreed to go and I have promised  
to join them there - They understand  
that the European Co organized  
in Paris must be dealt with  
and in the letters which Biedermann  
showed me, they profess themselves  
ready to acquire all these interests -  
Of course I cannot tell what may  
come of it, but if they are ready  
to furnish enough money it may  
result beneficially to all - I think  
the less said about this the better  
until I have been to Vienna &

1883-05-248

have found out what can be done. of course you will tell Maj Eaton & I will keep him or you advised of anything that comes of it. If it really amounts to anything I shall probably be able to consult with Mullright who will be in Europe next month. In the meantime can talk it over with M. Drexel who is now in Caribad.

I will advise you promptly of everything of interest in this matter. Don't fail to forward promptly all that the Geneva people ask and instruct the Paris people not to permit their agents to interfere with their territory.

My address is always Care Drexel Hayes & Co Paris -

With kind regards to all at  
D.D. Sam.

Very truly yours

Mrs A. Edw. E.  
65 Fifth Ave  
N.Y.

C. Goddard

May 28<sup>th</sup> 1883DAMPFSCHIFF Donau - near Southampton

My dear Susan,

We are getting near port, and I would ask you to remember, about "Wallerstein" - Edison told me on the boat that he would attend to it & if you will call his attention to it so that it will go through it I am sure will be acceptable to some of our people here -

- Also see that Croles gets the information necessary for giving me prices on Maguet wire for the new sizes of dynamo cores -
- Also mail me immediately my note book that I left on your desk or if it is too large tear out those leaves that have any writing on & number them & send by mail -
- The copies of Hornig's estimates of course I did not get and if you could hurry them up for me I should feel obliged -
- Tell Yail I am much obliged to him for valuable statistic information he gave me just before I came away -
- I also had not time to thank Clarke for his kind news; perhaps you will do this for me -

Very truly yours

Patchell

It's blowing like the devil and the writer looks a little 'drunken' coz.

Form No. 2.

1853-05-30

**CABLE MESSAGE.**  
**THE WESTERN UNION TELEGRAPH COMPANY.**

All CABLE MESSAGES received for transmission must be written on the Message Blanks provided by this Company for that purpose, under and subject to the conditions printed thereon, and on the back hereof, which conditions have been agreed to by the sender of the following message.  
THEOS. T. ECCLES, General Manager. NORVIN GREEN, President.

NUMBER 40 SENT BY M RECEIVED BY M CHECK 258  
18 Milano  
Received at FILED AT 894 BROADWAY May 30 1888  
To Edison G. my  
65 Fifth Ave

Ship five hundred meters number  
two tubes three hundred number  
four without Connections Compound  
Edison



Form No. 2.

## CABLE MESSAGE

### THE WESTERN UNION TELEGRAPH COMPANY.

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THOS. T. ECKERT, General Manager.

NORVIN GREEN, President.

NUMB.

SENT BY

RECV BY

CHECK

11

W. K.

M

4 Berlin

Received at

June 6 1888.

To

Edison  
My 65 Fifth ave

Yes

Edison

1883-06-06

SOCIÉTÉ ÉLECTRIQUE-EDISON

SOCIÉTÉ ANONYME

Au Capital de 1 million de francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Paris 1881

GRAND DIPLOME D'HONNEUR

ADRESSE TÉLÉGRAPHIQUE  
EDISON, PARIS

Paris, le 6<sup>th</sup> June 1883

33, Avenue de l'Opéra

Thomas T. Edison Esq.  
New-York.

Dear Sir,

We duly received your favor of May 7<sup>th</sup> answering to the claims of the Italian Committee to which we have given communication of your letter.

We now beg to send you a translation of their letters of 2<sup>nd</sup> June, which we recommend to your best attention, and also of 18<sup>th</sup> May.

We have also received your favor of May 25<sup>th</sup> and duly note you have credited our account with \$571.43 for the 3 Automatic Regulators sent by mistake to Genoa.

We are happy to inform you that we have been able to dispose of one T automatic regulator and one K automatic regulator, for which please remit in a new invoice.

7.72A  
We shall endeavor  
to dispose of the 3<sup>rd</sup> automatic  
regulator in the shortest possible  
delay.

Yours truly,

SOCIÉTÉ ÉLECTRIQUE EDISON

*Edison*  
Administrateur délégué

*[Faint, illegible handwritten text, possibly bleed-through from the reverse side of the page]*

1883-06-06

Extracts of a letter addressed to  
 the Compagnie Continentale Edison of  
 Paris, by the Comitato per le Applicazioni  
 dell'Elettricit  sistema Edison in Italia  
 dated. Milano 18<sup>th</sup> May. 1883

We shall take the liberty to point  
 out that in the former invoice, N<sup>o</sup> Edison  
 charged the tube N<sup>o</sup> 4 at \$2.60 per feet,  
 and in the last he charges it at \$2.70.

Please let us know the reason of  
 this difference.

We also find the cost of the  
 100 candles lamps very heavy.

If the 8 x 16 candles lamps cost  
 \$1.50 and the 32 candles lamps \$2.60  
 we find quite out of proportion that  
 the 100 candles lamps should cost \$2.50.

Please transmit our remarks to  
 N<sup>o</sup> Edison.

Comitato per le Applicazioni et.  
 Liquid. C. Meava.

1883-06-06

Extracts of a letter addressed  
to the Compagnie Continentale Edison,  
of Paris by the Comitato per le  
Applicazioni dell'Elettricit  a Litanza  
Edison in Italia, dated 2 June 1883.  
Milano.

As for the answer you ask to the  
letter of M<sup>r</sup> Edison we have very little  
to add to what we have already written  
on the matter; still we shall recapitulate  
the reasons already exposed, adding  
a few answers to the arguments of  
M<sup>r</sup> Edison.

1<sup>o</sup> M<sup>r</sup> Edison says that regulators of  
reserve are necessary, and that therefore  
he has sent 6 regulators for the dynamo.  
You will please observe that on the  
2 dynamos there will always be one of  
reserve, which will also give always a  
regulator of reserve.

2. Concerning the feeder-regulators  
M<sup>r</sup> Edison is mistaken thinking it had  
been decided to light up "La Scala"  
with a separate installation; to the  
contrary it has been decided to light  
it up from the Central Station and  
through the general canalization.  
Besides we do not see which  
relation there is between this and  
the number of feeder-regulators. The

1883-06-06

have only 4 feeders, and 6 regulators will be amply sufficient especially as we shall only use them later on.

For the present we intend to run the station, as the Pearl Street Station was run at the time Prof. Colamb was in New York. The feeder regulators were not even in use when Mr. East has left the N.Y. Central Station in the month of November, so that for the moment it would be almost impossible for us to use them.

It is true that Prof. Colamb has given to Mr. Edison a certain latitude for the appreciation of the material required by our Station, and therefore we have accepted a part of the feeder-regulators, which had never been ordered, but this latitude was meant in certain limits, owing to the means of which our Committee can dispose at present.

As for the Armington & Sims motors, it is clear from what Mr. Edison himself has written, that it would have been impossible for us to run our Station with the Foster Allen. It was then his duty to enable us to run it by substituting two motors, or else we should have had to protest the four dynamos altogether. Mr. Edison being responsible of this

1883-06-06

good working, not only as separate engines, but also collectively. This would have been impossible without the new motors, and Mr. Edison should have had to furnish them.

Nevertheless, as we have said already several times, we do not intend absolutely to raise a discussion on this point; the Foster Allen are here at your disposition and we shall do our best to use them in isolated plants or else in small central stations, or even in our Milan Central Station, when we shall increase the number of our dynamos, under reserve of course that the Foster-Allen can be governed by an Armington & Sons, as Mr. Edison formally affirms.

This is what we can answer to Mr. Edison's arguments, and we think you cannot dispute the justice of our claims.

Yours truly  
Comitato per le applicazioni  
etc. etc.  
Signed: G. Meava.

Form No. 3

## CABLE MESSAGE

## THE WESTERN UNION TELEGRAPH COMPANY.

(All) CABLE MESSAGES received for transmission must be written on the Message/Receipts provided by this Company for that purpose, under and subject to the conditions printed thereon, and on the back hereof, which conditions have been agreed to by the sender of the following message:

THOS. T. ECKERT, General Manager

NORVIN GREEN, President

NUMBER	SENT BY	RECD. BY	CHARGE
49	Co	20 Paris	9.30

Received at: 191 BROADWAY

June 5 1892

Dated:

To:

E Knoside Ny

Thos B. Edison 65-546

Ship immediate model Hamburg  
or Contract busted K. S. Hall  
will so tell Bergmann not  
send Galvanometers



To guard against mistakes on the lines of this Company, the sender of every message should make it repeated; that is, telegraphed back from the terminals of said lines to the originating office. For such repeating, the sender will be charged in addition, one half the usual rate of this Company, on that portion of its lines over which the message is repeated.

This Company will not assume any responsibility in respect to any message beyond the terminals of its own lines and it is agreed between the sender of the following Messages and this Company, that said Company shall not be liable for any delay in transmission or delivery, or for non-delivery to the next connecting Telegraph Company, of any uncompleted message, beyond the amount of that portion of the charge which may or shall accrue to the sender of such message. This agreement shall not apply to any message which may be sent by means of a special arrangement, or by means of a special rate, and said this Company shall not be liable for mistakes in the transmission or delivery, or for non-delivery to the next connecting Telegraph Company, of any such message, beyond fifty times the extra sum received by this Company from the sender for repeating such message over its own lines; and that this Company shall not be liable in any case for delays arising from interruptions to the workings of the lines, for the errors in cipher or obscure messages. And this Company is hereby authorized to make any such special arrangement, provided such message is sent on the lines of any other company to which no demerit is attached.

This Company is not to be liable for messages in any case, where the fault is the negligence of the sender of the message.

4  
June 6<sup>th</sup> 1883  
Chas Bratchell  
requests immediate  
reparation of the line



taken with consideration with  
 50% of breakage <sup>in quantity</sup> make them  
 much dearer than the nickel  
 ones. — The more thing I brought  
 with me some fibres for all  
 lamps cut. In gauging these  
 carefully I find 2 thousandths  
 more in width on the 50 + 100 C P  
 fibres and 1 thousandth more  
 on the small fibres

For instance 100 C P. marked 10 X 70 is

10 X  $\frac{72}{2}$

also box 8 X 13 $\frac{1}{2}$  is 6 $\frac{1}{2}$  X 8 X 14 $\frac{1}{2}$   
 and so on

Ask Edison if this is all O.K.  
 and made so by design or  
 by accident, it materially  
 alters the life & economy —  
 My fibres are all kept down to  
 size — these fibres I gauged  
 myself & found them uniformly

Yours  
 Batcher

SOCIÉTÉ ÉLECTRIQUE EDISON  
 SOCIÉTÉ ANONYME  
 Au Capital de 1 million de francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ  
 Paris 1881

GRAND DIPLOME D'HONNEUR

ADRESSE TELEGRAPHIQUE

EDISON - PARIS

Received with  
 thanks Hovings estimates.  
 Your letter of June 1<sup>st</sup> on  
 Italian patents to hand &  
 it will be attended to immediately.  
 Please call Hovings attention  
 to the letter I sent you a  
 few days ago relative to  
 our breakage on the  
 case C B  $\Delta$  — Now  
 another thing, all the  
 carbon worlds are sent  
 frightfully, and take a  
 great deal more time to  
 get up in the furnace than  
 the others — they break very  
 easily — and these things

1883-06-14  
 Paris, to the  
 Ref. to the  
 case for the  
 suggestion  
 present  
 June 4 1883.  
 188

04120

1883-06-20

Philip Reibel

Ingenieur, Societion  
de la Societe Electrique Edison  
83 Avenue de l'Opera  
PARIS

Munich, 20 June 1883

44  
June 20/83

Philip Reibel

Paris

~~Mr. A. Edison Esq~~

New York

Dear Sir

Enclosed I have the honor to hand you copy of the report of Prof. Dr. Sittenhofer, the great authority on hygiene, concerning atmospheric changes in theatres during a performance by gas light and by electric light. The observations were made at the "Residence-Theater", which I began lighting recently, achieving a great success. I am just now getting a full set of working plans ready for the regulator and other apparatus that I am ~~now~~ and shall send them to you.

I should regard it as a very great favor if you would let me have one of your late photographs of larger size such as I have seen with Bachelot and Hammer with your autograph affixed.

I am just now beginning to build

a central station of which the Residenz-  
theater and the much larger Hoftheater  
with about 1500 lights will form part.  
It would therefore be very opportune to  
send me all such material and infor-  
mation as you may deem necessary.  
Especially the meter I should like to get  
some practical information about. What  
is the largest size meter that has as yet been  
used.

We just closed contract with the  
administration of the Hoftheater at  
Stuttgart (the capital of Württemberg) for a  
plant of 900 lights, so that we may say  
that by the end of this year we will have  
5 large theatres lighted in Germany by your  
system.

I remain  
yours truly  
J. Schuch

Georgenstr. 4.

Munich.

We can furnish meters up to 2 or 3000 lights  
where there is more you can put 2000 or  
3000 - each in a Gränich = Batch has all the  
information I think about meters & everything =



1883-06-13

Aufwandsrechnung. Ich habe die Kosten  
 der Aufwandsrechnung für den Monat Juni  
 beifolgend beigefügt. Die Aufwandsrechnung  
 für den Monat Juni ist beigefügt. Die  
 Aufwandsrechnung für den Monat Juni ist  
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 rechnung für den Monat Juni ist beigefügt.

1883-06-13

# Temperatur der Luft mit Gasbeleuchtung und electri- scher Beleuchtung im Königl. Residenztheater.

	Gasbeleuchtung.						Electrische Beleuchtung.					
	I. Versuch 2. Mai 1883 leeres Dana-Temperatur im Freien 11,8° Celsius.			II. Versuch 6. Mai 1883 volles Dana-Temperatur im Freien 11,8° Celsius.			III. Versuch 29. Mai 1883 leeres Dana-Temperatur im Freien 17,6° Celsius.			IV. Versuch 10. Juni 1883 volles Dana-Temperatur im Freien 18° Celsius.		
	Sarkel	1. Rang	II. Rang	Sarkel	1. Rang	II. Rang	Sarkel	1. Rang	II. Rang	Sarkel	1. Rang	II. Rang
Minim	15,2	16,2	16,2	16,0	16,8	21,0	16,0	17,2	17,0	17,0	18,0	18,5
Max	16,5	19,4	25,4	22,2	23,6	29,0	16,9	18,0	18,5	19,6	21,2	23,0
Differ	1,3	3,2	9,2	6,2	6,8	7,4	0,9	0,8	0,9	2,6	3,2	4,5

Es geht, demnach die Erfahrung, hervor, wie man  
sicherlich annehmen darf, dass die Lufttemperatur bei  
einer gleichzeitigen Gas- und Electricitätsbeleuchtung  
höher steigt, als bei einer der beiden Beleuchtungsarten  
allein. Selbstverständlich ist der Unterschied bei  
verschiedenen Gasarten am größten. Bei Gasarten  
welche keine Kohlenwasserstoffe enthalten, sondern  
aus Wasserstoff und Stickstoff bestehen, ist der Unterschied  
am geringsten.

Der Gasverbrauch ist von Einfluss bei  
Wahlbestimmung wohl bekannt, die Preise nicht,  
insoweit der Verbrauch nicht bei der Beleuchtung  
der Gasbeleuchtung ist geringer, und die  
auf den Preisen nach Bedarf in Bezug auf  
die Gasbeleuchtung nicht sich der Wahl  
mit der Electricität vergleichen lassen.  
Es ist jedoch die Veränderung quantita-  
tiv nicht gut nachzusehen.

Die geringere Menge der Gasbeleuchtung  
lässt sich durch die geringere Menge der Electricität  
ausgleichen.



1883-06-13

das bei einem Grade, im Vergleich der  
Wärmeänderung in der Stärke der Abküh-  
lung der Körper und der fähigkeitsverminder-  
ungsgewinnung, welche sich bei der Wärme  
und immer abgegebener wird.

Die Dichte der Körper ist ferner, das  
bei einem Grade der Dichte, im Vergleich  
gewinnungsgewinnung im Vergleich der Wärme bei  
1 Grad Celsius 10 Mal (1,92: 0,9) größer  
ist, als bei derselben Dichte. Die  
Dichte der Körper ist ferner, das  
bei der Dichte im Vergleich der Wärme

Die bei der Dichte im Vergleich der Wärme  
Dichte von 6 Grad Celsius, im Vergleich  
von 1 Grad Celsius bei Gasentwicklung 29 Grad Celsius  
(1,23: 2 Grad Celsius), sind bei derselben  
Dichte 23 Grad Celsius (1,18: 2 Grad Celsius)  
beobachtet worden. Bei derselben Dichte  
beobachtet man die Dichte bei der  
10 Range (23 Grad Celsius) nicht einmal so  
groß wie bei Gasentwicklung in 1 Range (23,6 Grad Celsius)

Es ist nun ebenfalls bemerkenswert, dass  
man beobachtet, dass bei der Dichte  
mit Gasentwicklung, die Dichte  
im Vergleich der Wärme, als bei der  
Dichte mit derselben Dichte  
so groß ist, dass sie nicht mehr  
beobachtet werden.

Die Dichte der Körper ist ferner, das  
bei der Dichte im Vergleich der Wärme  
Dichte







June 13<sup>th</sup> 1883  
 Report of Dr. Witt  
 Von Pettenkofer  
 in re - the  
 illumination of the  
 Royal Residence  
 at Munich  
 with Gas & Electric  
 Light

Witt

(B)



Translation of  
 Verhandlung et Memorandum

1883-06-15

Munich June 13<sup>th</sup> 1883.

Hygienic Institute of the Royal  
Ludwig-Maximilian University  
Munich

Concerning the illumination of the royal residence-  
 theatre of Munich with gas and with electric light.

To Mr. Philip Seibel, engineer of the Societe Elec-  
 trique Edison at present in Munich, George Street. # 4.

In the investigations, undertaken at your own  
 and Professor Earnst Voit's request by the hygienic  
 institute at the royal residence theatre, with the  
 view of comparing gas- and electrical illumination  
 the temperature and carbonic acid of the atmosphere  
~~was ascertained only by means of~~ of the parquet, <sup>1st balcony</sup> and  
 gallery, were ~~was~~ simultaneously ascertained,  
 both in the empty theatre as well as during performance.

I will first report on the results of investigating  
 the temperature on the occasion of each specimen  
 of artificial lighting. The tests with regard to  
 carbonic acid, have, especially when made during  
 the performance, led to results which <sup>will</sup> necessitate a  
 number of additional tests at various points of the  
 theatre, in order to insure reliability.

On the occasion of the tests <sup>in</sup> the empty  
 house, there were <sup>to 15</sup> never more than 10 persons.

1083-86-13

present both on the stage and in the auditorium, the curtain had been raised and both stage and auditorium were kept fully illuminated for an hour. The temperature in the 3 localities mentioned was ascertained every 5 minutes.

On the occasion of tests made during performances the ticket-taker's receipts proved the presence of from 500 to 600 persons in the auditorium and the state of temperature was ascertained every 10 minutes.

The temperature gradually rose both in the empty as well as in the full house from the minimum at the beginning to the maximum at the end, without any marked <sup>disturbance</sup> irregularity, as shown in the tabular list hereto annexed:

Temperature of the atmosphere in the Royal Residence Theatre with gas- and with electric illumination

	Gas - Illumination						Electric - Illumination					
	I. Test Empty House May 2 <sup>nd</sup> 1883 Temperature in the room 11.5° Celsius			II. Test Full House May 6 <sup>th</sup> 1883 Temperature in the room 11.5° Celsius			III. Test Empty House May 29 <sup>th</sup> 1883 Temperature in the room 17.5° Celsius			IV. Test Full House June 10 <sup>th</sup> 1883 Temperature in the room 15° Celsius		
	Parquet	Balcony	Gallery	Parquet	Balcony	Gallery	Parquet	Balcony	Gallery	Parquet	Balcony	Gallery
Min:	15.2	16.2	16.2	16.0	16.8	21.6	16.6	17.2	17.6	17.6	18.0	18.8
Max:	16.5	19.4	25.4	22.2	23.6	29.0	16.0	18.0	18.5	19.6	21.2	25.0
Difference	1.3	3.2	9.2	6.2	6.8	7.4	0.4	0.8	0.9	2.0	3.2	6.2



1883-06-13

The above furnishes conclusive evidence how much less heat is produced in the atmosphere by electric illumination than by gas-illumination.

The difference is, of course, largest when the house is empty. In a full house there occur, besides the heat developed by the actors and audience, various additional disturbances of the atmosphere:

The auditorium is illuminated before the <sup>performance</sup> begins not so the stage. During the performance the illumination of the auditorium is <sup>greatly</sup> reduced, while that of the stage is increased according to the requirements. Between the acts this condition is reversed so that it is difficult to pursue these changes quantitatively.

For purposes of ~~assess~~ reliable comparison the tests made in the empty house are therefore, strictly taken, alone decisive, as during the course of these tests there was no change in the illumination either on the stage nor in the auditorium and the curtain always raised.

These tests show, that in an empty house the <sup>rise</sup> difference in the temperature of the gallery is 10 times (9.2 : 0.9) larger in gas-illumination than in electric illumination.

In the lower portions of the auditorium, these differences become, of course, less marked.

Even in a full house there is still a difference of 6 degrees Celsius, the temperature of the gallery in gas-illumination being found to be 29° Celsius (= 23.2° Réaumur) but only 23° Celsius (= 18.4° Réaumur) in electric illumination.

In the latter, the temperature of the gallery (23° Celsius) was not even as high as that of the balcony (23.6° Celsius) in gas-illumination.

1883-06-13

It is but just to add that on the occasion of the tests made with gas-illumination the temperature of the open air was lower than at the time the tests with electric illumination were made, so that the latter had not by any means the advantage.

With regard to the carbonic acid of the atmosphere I can only state that in the empty house the carbonic acid, evidently emanating only from the gaslight was noticed to increase at a rate similar to that of the temperature.

At the beginning of the test the carbonic acid of the atmosphere in the auditorium was found to be 0.4 pro mille. In gas-illumination after the lapse of half an hour:

in the parquet	0.5	pro mille
" " balcony	1.1	" "
" " gallery	1.4	" "

After the lapse of an other half hour:

in the parquet	0.6	" "
" " balcony	1.0	" "
" " gallery	2.0	" "

In electric illumination:

At the beginning 0.4 pro mille

After the lapse of an hour

in the parquet	0.5	" "
" " balcony	0.5	" "
" " gallery	0.6	" "

As the electric light of the Edison system does not produce carbonic acid, its ~~presence is so small~~ <sup>scarcely perceptible</sup>

1883-06-13

6.

increase in electric illumination must <sup>have</sup> been due to the presence of a few workmen occupied on the stage and of those making the tests.

It was expected that in a full house an equally noticeable difference in carbonic acid of the atmosphere in gas- and electric illumination, as in the case of the tests in the empty house, would manifest itself, which, however, was not the case.

In the full house the maximum of carbonic acid recorded: was

in gas illumination	2.3 per mille
“ electric	1.8

The causes of this apparent contradiction are undoubtedly varied.

The carbonic acid emanated from two sources first of all from the gas-light and then from the people in the auditorium and on the stage. Both performance and between the acts produce uncontrollable changes, then there is a change of atmosphere whenever a door is either wholly or partially shut or opened, then again the different temperature of the atmosphere of the theatre and of the open air, particularly the greater heat in gas-illumination naturally produce increased ventilation especially the gasolier pending from the ceiling of the auditorium.

In electric illumination there is, owing to the small difference in temperature between the atmosphere of the theatre and that of the open air, but little change of atmosphere, which <sup>does not furnish</sup> prevents the escape of the carbonic acid generated by the people

1883-06-13

to such an extent as in the case with gas illumination. The increased ventilation caused by the latter is probably the reason, why the difference of temperature in gas- and electric illumination was found to be less marked in a full house, than in an empty one.

From the aforesaid tests, the following two conclusions have been arrived at to a certainty:

- 1) that electric illumination prevents to an eminent degree an excess of heat in the atmosphere of a theatre.
- 2) that electric illumination, although unable to render ventilation unnecessary, requires less ventilation than gas illumination, for the reason that in gas illumination ventilation has to be directed not only against the vitiation of the atmosphere by the people, but also against the heat and the products of combustion of the gas-light; while in electric illumination ventilation has only to influence respiration, perspiration and their consequences.

(sig.) Dr. Max von Pettenkofer  
Royal Privy Councillor and Professor.

KESSLER & CO  
BANKERS,  
P. O. Box 1105.

1883-06-21

68 Wall Street,

New York, June 21<sup>st</sup> 1883

CABLE ADDRESS:

"TYZEPHYRA, NEW YORK."

Thomas A. Edison Esq.

Present

Dear Sir

In reply of yours from of the 19<sup>th</sup> I  
will be glad to pay you what you are entitled to  
on the form the Baggage Control Commission of  
Paris as follows: Say Edison & Co for account  
of "every", the last word is remembered possibly to be used  
as given here it is but may we can make it good.

We beg to enclose you check for  
\$3000.00 against which please return the receipts  
for original & duplicate, should you know for these  
against the payment of which please fill out receipts  
as they may be

We remain

Dear Sir

Yours very truly

Wm. Kessler

Wm. Kessler  
to his office before 2 P.M.  
as we receive the amount  
the same by this check

1883-06-21

June 21st.

3

Messrs. Kossler & Co,

68 Wall Street, City.

Dear Sirs:-

I am in receipt of your favor of this date covering  
check for \$3,000. The cable quoted by you conveys to me perfectly  
the information I require as to whose account the monies come.  
I return you herewith receipt signed in duplicate, and remain,  
very truly yours,

1883-06-21.

SOCIÉTÉ INDUS<sup>elle</sup> & COMM<sup>le</sup> EDISON

Société Anonyme, Capital: 1.500.000. Francs.

à Ivry s/Seine, 5, Rue du Parc.

Grand Diplôme  
d'honneur  
PARIS 1881

Ivry, le June 21 1883

My dear Edison,

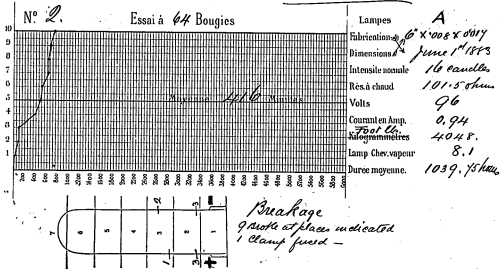
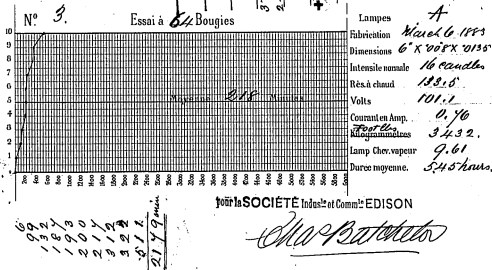
Enclosed find

Leaf 2 & 3. — No 3 is not  
good for life but I wanted  
to show it you just as we  
got it. I have had some  
which better

Your Batch

June 16<sup>th</sup> 1883pour la SOCIÉTÉ Indus<sup>te</sup> et Comm<sup>er</sup> EDISON

Charbonnetier

June 21<sup>st</sup> 1883.



1883-06-24

Edith Newbold, Portland, N.W.  
June 24th 1883

My dear Johnson,

I shall have tomorrow for Mr. [unclear] send today to Paris the propositions for the lighting in Russia with Siemens & Halske, which will completely kill off Swan and all other possible opposition for years in that country. Our participation with Siemens & Halske is proposed for taking up the Newby Project complete, which is over in the name of Siemens & Halske and to place for the 1st September per Arc-light installation on the street of 32 lamps and an incandescent installation of 500 lamps, the latter to be increased to 2500 before the winter sets in; also to light one of the Royal Theatres, and contracts will be made at once for a central station in a grand square where there are 12,000 lamps in a single building, and the land for the central station is given gratis. It is proposed further that Siemens & Halske and Edison participate equally in whatever business may be done in Russia. If the contract is made with Siemens & Halske for manufacturing we have half the profits of that and they participate equally with us in any profits we may make. How does it strike you? You know your situation in regard to patents is quite different in Russia from what it is in any other countries. Swan, Jones to Lane-Tony have each of their patents and they are given in Russia with guarantee of the Government, and it is very difficult to get any reduction of a grant when you make.

I have written a letter today to Messrs. [unclear] & [unclear], asking them to send confidentially

We should like to  
 deductive

1883-06-24

copies of the opinions of all experts in the Edison case was  
London to Mr. Powell, our lawyer at Paris for examination  
and saying that we will pay expenses for making copies.  
Our opinions will be sent early in July and I shall  
be greatly obliged if you will say that there are no  
difficulties in the way of sending the papers as requested  
they will be sent by no one but our counsel and reports  
will not go to our office at all. I shall also  
be very much obliged if you will let me know the  
news of your operations in London or anything else that  
you think may be of interest. Will you also send me  
a copy of the Sweden, Portugal and Norway contract, included  
as your proposal in order that I may have an opportunity to  
write you concerning it, before you leave for the States.  
What will be the date of your departure?

Negotiations as to the international affair are  
proceeding very favorably. I am assured the cooperation  
of a strong group of capitalists outside of those at present  
engaged with us in Germany and other important  
support in connection with Dr. Siemens. One of the  
directors of the International Financial Society is going to  
Paris the 29th inst. to see me, but in my absence  
I put him in relation with Mr. Leon. Should you  
go to Paris in the meantime you need not speak of it  
in the office as it would not be well at this stage of the  
negotiations to bring the gentleman in communication with  
Mr. Poiré and one or two others of our Board; so the  
matter will go on confidentially with Leon. Some large  
business has been already secured by the new German  
Company. They have a central station at Munich, one  
at Stuttgart and they are planning two or three more  
in Berlin. They are rather pugnacious and I have

1883-06-24

3

been occupied a considerable part of my time here in  
keeping the peace between them and Pierson & Halick  
I think it will go along all right.

Very sincerely yours

F. D. Bailey

E. H. Johnson by  
Royal Hotel  
Blackfriars  
London

E.C.

**CABLE MESSAGE**  
**THE WESTERN UNION TELEGRAPH COMPANY.**

(All CABLE MESSAGES received for transmission must be written on the Message Blanks provided by this Company for that purpose, under and subject to the conditions printed thereon, and on the back hereof which conditions have been agreed to by the sender of the following message.)

PHOS. T. BOKKERT, General Manager  
NORWICH GREEN

Received at **70 BROADWAY** *July 1892*

Dated *10* *July 1892*

To *Edison nij 65 5th av*

*Started station success  
tomghe manjone theater  
lighted*

*Lucas*



SOCIÉTÉ ÉLECTRIQUE EDISON

SOCIÉTÉ ANONYME  
Au Capital de 1 million de francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ  
Paris 1881  
GRAND DIPLOME D'HONNEUR

ADRESSE TÉLÉGRAPHIQUE  
EDISON, PARIS

1883-06-28

Paris, le 28 June 1883.

33, Avenue de l'Opéra

Amual Insul & Co

New York

My dear Insul,

Thanks for information contained  
in your late letters - When I read your account  
of the cross on the main feeders in the down town  
district my first thought was "where were the  
safety catches?" Had you any there or how was it?

Should like to have a little description of ampere  
recorder that shows directly the number of lamps on  
at any one time. - Get it me if you can -

Please ask Holzer to send me the good records  
of lamps that he has got and also specify the  
sensitivity. None of the diagrams sent me tell  
me anything about sensitivity and of course  
although the life may show good I cannot tell  
whether the fibre is right size especially as  
all those that I brought are 1-2 thousandths  
to wide one way

Yours  
Bretcher

SOCIÉTÉ ÉLECTRIQUE EDISON  
SOCIÉTÉ ANONYME  
Au Capital de 1 million de francs  
EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ  
Paris 1881  
GRAND DIPLOME D'HONNEUR  
ADRESSE TÉLÉGRAPHIQUE  
EDISON, PARIS

1883-06-28

Paris, le Jeudi 28<sup>e</sup> 1883

33, Avenue de l'Opéra

Thomas Alva Edison Esq  
Dear Sir

I have been  
referred to your paper  
and have been that you have  
received the rest of the money  
to whom you have given every facility  
for seeing the system and visiting  
your shop.

I thank you very sincerely  
for your kindness and remain

Dear Sir,  
Yours very truly

SOCIÉTÉ ÉLECTRIQUE EDISON

Administrateur délégué





1883-06-29

Société d'Appareillage Electrique

Geneve, le 29 Juin 1883

Messieurs  
Monsieur le Directeur  
de la Revue  
de l'Electricite  
108-114 West Street  
New York

Nous sommes en possession de  
votre lettre du 21 Mai, nous annonçant votre  
envoi de 6 catalogues

Ne les ayant pas eues jusqu'a present  
nous avons pense qu'ils seraient utiles  
avons telegraphie hier

Bergmann Edim

Stuyvesant  
Land catalogues d'appareillage

Nous vous prions également de nous  
dire si vous le pouvez, en finissant  
des machines Edison, ainsi que des lampes  
de Edison et autres renseignements

Je vous prie d'agréer, Messieurs, nos  
salutations respectueuses

SOCIÉTÉ D'APPAREILLAGE ÉLECTRIQUE  
AGÈNEVE

M. Schlegel

(over)

Mr. Insull

These parties want price list of Edison attachments and also of lamps of different volts (force they call it) all colors. I have written them that I had referred their letter on these points to you.

W. K. Klein Jr

10.

June 19 1883

Mr. Hodgkins

all the letter of the street at 10 pm

Edison's said letter referring to the time nearly 100 lamps

RECEIVED

(over)

1883-06-30

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'honneur  
PARIS 1881

R  
Ivry-sur-Seine, le 30<sup>e</sup> de Juin 1883  
5, RUE DU PARC.

G. A. Edison, Esq.  
New York:

My dear Edison,

Referring to invoice of 11<sup>th</sup> inst. in which I complained of the careless manner in which the shipment from the lamp factory was made I am sorry to hear that you agree on the same subject.

This shipment was made through Hayward Perry & Son, New York and you will see from enclosed note that extra fees charged on the outrageous exorbitant sum of £4.17/6 as freight on a case weighing scarcely 2 cwt, besides they have sent the case flying all over England & France by Express train and these additional charges we have had to pay as well, although the shipment has been as long on the way as if it had come by the ordinary route, at the lamp factory they well know that we are never in such a hurry to receive goods as to necessitate sending them by passenger trains.

Will you be kind enough to obtain any explanation from Hayward's people of the £4.17/6 and if they refuse to

10

refuse the overcharged freight the best thing will be to send the shipments by another line as we find that generally speaking we pay too much freight on all our shipments. If Downing & Holden & Co is a good respectable firm we could have a trial shipment through them.

In conclusion I cannot recommend you too strongly to see that full particulars of all future shipments be sent us in "due time", both as regards contents of cases & the route they come by.

Yours faithfully,

Chas. B. Nichols

to  
June 30/13  
C. B. Nichols  
re shipment  
to C. B. Nichols

if they will give you  
 \$2000. or 2500 you  
 will take a 3 year contract  
 business account ~~to~~ use an amount  
 To show me ~~of~~ ~~the~~ ~~vi~~ ~~free~~ ~~the~~ ~~the~~  
 I can ~~of~~ ~~the~~ ~~the~~ ~~the~~ ~~the~~ ~~the~~  
 take ~~of~~ ~~the~~ ~~the~~ ~~the~~ ~~the~~ ~~the~~  
 Thomas Edison, Esq.,  
 Dear Sir;

At last after  
 seven months of waiting  
 I have the pleasure of  
 announcing the starting of  
 the Milan Central Station.  
 On the evening of June 28<sup>th</sup>  
 the Comitato invited the  
 representative people of Milan  
 to an entertainment at  
 Teatro Mangoni on which  
 occasion the Theater was  
 for the first time formally  
 opened to the public.  
 The entertainment consisted

1883-07-

of two comedies, arranged to show the effect of the light on the costumes, and a Mandolin Concert.

Between the acts an exhibition was given to the audience of the regulation of the lights in the Main Hall, foot lights and upon the stage the public receiving the display with great applause.

The press was very enthusiastic over the success of the opening and urged the immediate adoption of the system in all the theaters. They had in all

about 362 A lights in the theater, distributed as follows:

Portable Lamps on Stage	22 A
Reflectors	10 A
Foot lights	20 A

Orchestra	1 A	26 B
Hall & Gallery		27 A
Vestibule		27 A
Cafe		7
Street Lamps		2932 Candle Lamps
Portico		7
Boxes		36 A
Artist Rooms &c		36 A & 70 B

Total	286 A
	96 B
	72 (32)
	1 1/2 in

The Dynamo supplied in addition 90 lights in the stores of the Galleria Vittorio Emanuele and at the station. I added a permanent load of 200 lamps more to effect a better regulation.

The Machines were in a very bad condition when they arrived here; the magnets on account of exposure to the weather in transit were very damp.

They have dried out now and only have greatly improved. The Engines were also out of line with the Dynamo when they were fitted to the

1880-7-10-1

Base plates at the Machine  
Holes and it was necessary  
to re-adjust them.

The huge at present the  
Two Porter-Allen Engines in  
working order; the No 1  
Engine will be ready in  
2 or 3 weeks. To morrow  
(July 27th) we begin fighting  
regularly from the Station  
starting with a load of  
500 Lamps which number  
will be rapidly increased  
in a short time.

All has gone well thus far  
the Dynamo starting up  
without any trouble or delay  
of any kind. I have  
experienced great difficulty  
in getting men to assist  
me in my work as those

possessing Intelligence all  
about working themselves and  
not well enough posted practically  
to see that the work is properly  
done. In this respect the  
Committee are not very fortunate  
as their Engineers had no  
practical experience and  
considered themselves about doing  
the work, necessary to obtain  
it. They sent a man (a  
Professor at a small college here)  
to put up a 25 light plant  
in Naples; it took him  
20 days to start it and  
my one week took \$40 (Lamps).  
This is only a specimen  
case. I am using a differ-  
ential galvanometer as a  
pressure indicator putting  
a german silver resistance

in Circuit with one Coil  
and a Lamp as a Resistance  
in circuit with the other;  
it appears to work well.

The diaphragm here is not  
supplied with Galvanometer  
wires at Feeder extremities  
and Feeder Regulators are  
therefore almost useless unless  
an indication of some kind  
is secured at the Feeder  
terminations. What do you  
advise me to do in this  
connection?

Prof. Keolomb has seemed to be very  
much in favor of using  
accumulators in connection  
with Station and has spoken  
to me about making exper-  
iments with that end in  
view.

[6]

Prof. Keolomb has spoken to  
me about accepting a  
permanent position with  
the Western Company, although  
as yet they have made no  
definite offer. Am I at  
liberty to accept if their  
terms are acceptable to me  
or must I await your  
further orders?

Hoping you will keep me  
advised of any improvement  
in Central Station working  
I remain

Yours very respectfully  
John W. Liebig.

[7]



1883-07-02

## SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

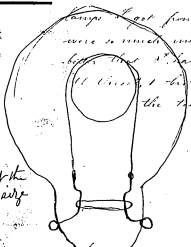
EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'honneur  
PARIS 1881Ivry-sur-Seine, le 2<sup>ème</sup> July 1883  
5, RUE DU PARC.E. A. Edison Esq.  
New York.Swain Lamas

My dear Edison

I send you the result of a test of 2 Swan  
lamps I got from London. Everybody was saying that they  
were so much more economical than ours and so much  
better that I have ordered 50 for the test.

All things I tried during testing before it came to the result  
the test of the other is as follows—

about the  
full size

	66 candles	50 candles	45 candles
Resist <sup>n</sup> cold	190.5		
" hot	98.6	97.9	96 ohms
Volt.	95.5	97.5	102.
Ampères	2.96	2.97	1.06
foot lbs.	4136	4268	4840
lamps per HP	7.9	7.7	6.8.

Life of 66 candles: 575 minutes — 125 volts  
Type of fibre after carbonization  $\frac{1}{2}$ " x .009"  
of section @ circular.

After 200 minutes I noticed it eat  
candle power and on taking from 50 candle  
Patterson has applied to Patterson for  
employment saying that there was nothing to do in

1883-07-02.

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'honneur  
PARIS 1881

2

Ivry-sur-Seine. le 2<sup>me</sup> July 1883

5, RUE DU PARC.

(cont.)

America and that the companies had no money to do anything with. These kind of letters give our people bad impressions.

The lamps. I understood from Mr. Navarre & Dr. Albesse that I should be sent 6 arc lamps to Antwerp, and, from the latter, that I should have from Bergmann 4 or 5 arc lamps all in pieces to make my patterns from and that I could make it up again and send it out of the country. I have, as yet, heard nothing about them, have you stopped them?

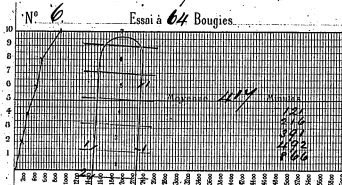
Have you done anything more on your arc lamp that will go on our circuit? If so, let me know immediately, as arc lights are much more necessary in some countries of Europe than America.

Yr. truly  
Chas. B. Edison

SOCIÉTÉ Indus<sup>e</sup> et Comm<sup>e</sup> EDISON

5 Lampes.

*1004* <sup>1888-07-03</sup> *Sw Lemme*  
Manufactured 3 July 1888



Lampes	116	16p.	64.00
Fabrication			
Dimensions	6.7 x 11.2 x 30.7		
Intensité normale	16		
Rés. à chaud	101.	9.7	
Volts	97.8	121.5	
Courant en Amp.	0.979	1.288	
Kilogrammètres	9.7	15.8	
Lamp Chev. vapeur	1/4	4.7	
Durée moyenne.	104.1	211	217

*Chas. Batchelor*

1893-07-05

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'honneur  
PARIS 1881

476

Ivry-sur-Seine, le 5 July 1893  
5, RUE DU PARC.

Thos A Edison &

New York

My dear Edison,

I have had an analysis of our lamp breakages on pumps made and I thought it might be of interest to you.

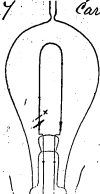
Of all the lamps we put on pumps we have

91.2 good for testing

8.4 bad by breakage or other cause.

I have classified all these bad lamps as follows. -

- 1<sup>st</sup> Pump broke.
- 2<sup>nd</sup> Mercury ran up in lamp or,  
Phosphoric anhydride up in lamp.
- 3<sup>rd</sup> Spots and bright places in Carbon
4. Accident in any way such as bad handling etc
- 5 Stoppage of Mercury pump (breakdowns etc)
- 6 Broke from irregularity of current
- 7 Carbon broke at x and the lamp began to fuse.



SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

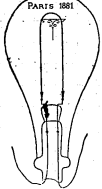
Société Anonyme, Capital : 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ELECTRICITÉ

Grand Diplôme  
D'Inventeur  
PARIS 1881

Ivry-sur-Seine, le  
5, RUE DU PARC.

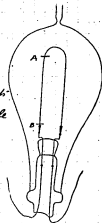
18



Platinum wire fusing  
glass cracking where  
marked

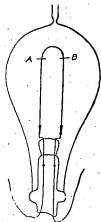
9

Carbon broke  
between the points  
A + B one single  
break.



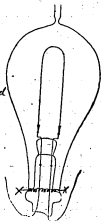
10

Carbon broke between  
A + B one single break.



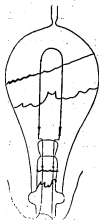
11

Lamp cracked  
at sealing  
marked x x.



12

Lamp exploded entirely  
where ~~the~~ marked



# SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

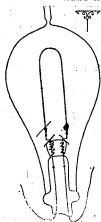
Société Anonyme, Capital : 1.500.000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'honneur.  
PARIS 1881

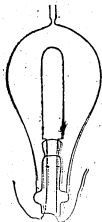
B

Ivry-sur-Seine, le  
5, RUE DU PARC.



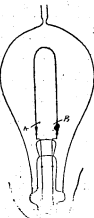
13

Both platinum  
wires fused in glass  
& clamps fused



15

Carbons broken by  
man who seal off in  
any manner.



14

Carbon broken  
by air rushing  
in when taking  
off the pumps  
between A & B

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total Broken
A 10	5	5	4	9	7	1	8	34	86	4	2	4	2	3		174
A 16	49	24	21	67	18	15	30	71	97	7	15	27	19	10	5	475
A 32	14	4	5	7	21	2	22	64	24	2	3	11	11		3	193
B 8	66	9	12	17	46	14	13	38	118	3	4	5	4	2		351
B 16	3		5	10	15	4	9	9	7			3	1			66

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'honneur  
PARIS 1881

Ivry-sur-Seine le  
5, RUE DU PARC

4

- As regard no 1 better pump glass from America has improved that wonderfully  
As regard no 5 Our new engine fixes that (now running).  
As regard no 6 " " " " "  
As regard no 8 most of this is due to French Glass.  
As regard no 9 This is large an hunting cause  
As regard no 11 Very small considering the glass we have had.  
As regard no 12 in many cases due to uneven thickness -

Very respectfully yours

Chas. Batchelor

We are absolutely busted!

1883-07-05

SOCIÉTÉ INDUSTRIELLE & COMMERCIALE EDISON

Société Anonyme, Capital: 1.500.000 Francs.

à Ivry s/Seine, 5, Rue du Parc.

Grand Diplôme  
d'honneur  
Paris 1881

Joury, le 5 July 1883 188

New York

My dear Lussat,

As you know I own \$5000  
in the shares of the European companies  
which have been paid for by a gentleman  
here & held for me - He has wanted  
his money and I am talked in to pay  
him - I need not say that I have  
not the 'spondulicks' and I feel bound to  
pay the honorable gentleman his money  
if I gave you a few European units you  
sell them for me or should you raise  
the money temporarily in a few  
American - You may mention this  
& Edison if you like

Your Bachelor

1883-07-05

Milwaukee July 8/3

My Dear Mr. Edison:

I beg you will  
take the time to read my letter  
dated 20 June & two notes  
5 July, sent to Mr. Eaton;  
also that on Italian business  
mailed three days ago.

Yours very sincerely  
G. P. Adams



1883-07-06

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme H. P. O.  
d'Honneur  
PARIS 1881

Ivry-sur-Seine  
5, Rue du Parc

M. A. Edison &

*Handwritten notes:*  
To  
July 6  
this information  
for  
arrangement

My dear Edison,

I am a good deal worried about the life of our 10, 32, 50, & 100 candle power lamps. I do not know whether this is new to you, but our ordinary  $6\frac{1}{2} \times .009 \times .017$  fibre when carbonized has a surface of  $\frac{1}{1000}$  of a square inch for every candle of light; our 10 candle since you made it 6" long has still only  $\frac{1}{1000}$  of a sq. inch surface per candle; our 50 candle has only  $\frac{1}{1000}$  of an inch and the 100 candle has  $\frac{1}{1000}$ . However calculated the fibres did not take into consideration that all fibres of bamboo shrink in carbonization 50 percent in width; whilst in thickness they only shrink 28 percent; and in length 22 percent. If Lytton will study these differences of shrinkage he can make a much better carbon for different candle power. It is not difficult to keep the surface per candle power the same & still keep same resistance.

Very truly yours  
Chas. Batchelor

*Handwritten mark:* 11

55 East 7<sup>th</sup> St

1883-07-06

DEUTSCHE EDISON GESELLSCHAFT  
für angewandte Elektrizität.

Direction.

96. Leipziger Strasse  
BERLIN W., den July 6<sup>th</sup> 1883

Thos. A. Edison Esq

Dear Sir.

Allow me to introduce

to you the bearer Dr Ernst Haagen who has been appointed by the municipal authorities of Berlin to visit, inspect, and report upon the problem of Incandescent Lighting as solved by you in America.

The municipality owns and controls the gas of Berlin and they are at present very much interested in the present state & future prospects of the Incandescent Light as as you may well judge Dr Haagen's visit will have no slight bearing upon future relations between the Deutsche Edison Gesellschaft and this powerful organization, I know he will receive

Every attention and courtesy from the Edison people in New York and as he comes highly recommended by Prof Klemmholz, Dr Reimers & others & brings also an official introduction from our Co, it is scarcely necessary for me to write as well but Mr Rathenau has requested me to see yourself & Major Eaton a few lines

Mr Rathenau gave me recently your last letter in which you request that he will keep you informed upon the progress & general state of the Company's affairs from time to time and he has requested me to undertake this responsibility and I shall at an early date write you a letter in full relative to the present state, and future prospects and will endeavor to keep you well informed from time, with very sincere regards I remain

Yours respectfully

Wm. J. Hammer

Chief Engineer  
D. E. S.

3092

1883-07-06

DEUTSCHE EDISON GESELLSCHAFT  
für angewandte Elektrizität.

Direction.

96. Leipziger Strasse  
BERLIN W., den 6<sup>ten</sup> July 1883

Dear Sir

The present is intended to introduce  
to you, recommending him to  
your kind attention, Dr. Ernst Hagen,  
of Berlin who has been deputed  
by the authorities of this city to  
visit your country chiefly with the object  
to obtain information about and to  
study the system of Electric Lighting  
which under your leadership has taken  
the old world and the new by surprise.

We are assured that you will  
do all in your power to provide Dr  
Hagen with the necessary facilities  
for gaining his object and to

enable him to obtain the most  
minute details on everything connected  
with electric lighting.

We are

Dear Sir

Yours faithfully

DEUTSCHE EDISON GESELLSCHAFT  
FÜR ANGEWANDTE ELEKTRIZITÄT.

Mathewau *H. Hugo Fischer*

Thos. Alva Edison Esq  
Menlo Park  
New York. U.S.A.

Copyright

1883-07-09

**THE WESTERN UNION TELEGRAPH COMPANY.**

This Company TRANSMITS and DELIVERS messages only on conditions limiting its liability, which have been accepted by the sender of the following message. Errors can be guaranteed against only by repeating a message back to the sending station for comparison, and the company will not hold itself liable for errors or delays in transmission or delivery of Unrepeated Messages, beyond the amount of rate paid thereon, nor in any case where the claim is not presented by writing within sixty days after sending the message.

This is an UNREPEATED MESSAGE, and is delivered by request of the sender, under the conditions named above.

THOS. T. ECKERT, General Manager.

NORVIN GREEN, President.

NUMBER	SENT BY	REC'D BY	CHECK
2 P	an	Rm	101 Pd

Received at 8-05-00 7/9 1888.

Dated New York N.Y. 7/9To: Thos A Edison, City Hotel

Have just recd following from Bailey "Cable date and price will ship two certainly perhaps four juncos genoa quite lowest possible cable ends" why not sell machines at present in sep without any experimenting for increased capacity we called Bailey in February would

1883-07-09

**THE WESTERN UNION TELEGRAPH COMPANY.**

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This is an UNREPEATED MESSAGE, and is delivered by request of the sender, under the conditions named above.

THOS. T. ECKERT, General Manager.

NORVIN GREEN, President.

NUMBER	SENT BY	REC'D BY	CHECK
768			

Received at \_\_\_\_\_ 1888.

Dated \_\_\_\_\_

To \_\_\_\_\_

sell four juncos ninety seven hundred and fifty dollars each job Hamburg delivered thirty days after order would strongly advise getting ninety two hundred & fifty each machine job New York because freight rates to Genoa uncertain this would enable us

Form No. 1.

1883-07-09

**THE WESTERN UNION TELEGRAPH COMPANY.**

This Company TRANSMITS and DELIVERS messages only on conditions limiting its liability, which have been assumed to by the sender of the following message. Errors can be guaranteed against only by repeating a message back to the sending station for comparison, and the Company will not hold itself liable for errors or delays in transmission or delivery of Unrepeated Messages, beyond the amount of tolls paid thereon, nor in any case where the claim is not presented in writing within sixty days after sending the message.

This is an UNREPEATED MESSAGE, and is delivered by receipt of the sender, under the conditions named above.

NORVIN GREEN, President.

THOS. T. ECKERT, General Manager.

NUMBER	SENT BY	RECD BY	CHECK

Received at \_\_\_\_\_

1883

Dated \_\_\_\_\_

To \_\_\_\_\_

help London Company out & create good  
impression by selling their machines  
answer tonight waiting reply at office  
Insuble

1883-07-12

SOCIÉTÉ INDUSTRIELLE COMMERCIALE EDISON

Société Anonyme, Capital: 1,000,000 Francs.

à Ivry s/Seine, 5, Rue du Parc.

Grand Diplôme de ~~la~~ <sup>la</sup> JURY, le 12 July - 1883

M. G. Edison &

New York.

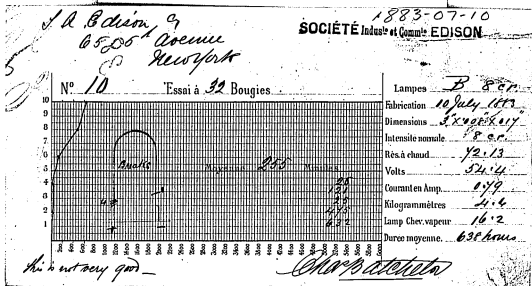
My dear Edison,

Enclosed test of <sup>Alano fluid</sup> 6" x 0.08" x 0.04" our make for beginning July

Yours  
Charles Batchelor

1. Enclosure.

[ENCLOSURE]



1883-07-12

SOCIÉTÉ ÉLECTRIQUE EDISON

SOCIÉTÉ ANONYME

Au Capital de 1 million de francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Paris 1881

GRAND DIPLOME D'HONNEUR

ADRESSE TELEGRAPHIQUE

EDISON, PARIS

Paris, le 12 juillet 1883.

33, Avenue de l'Opéra

Thomas A. Edison Esq.  
New-York.

Dear Sir,

We beg to confirm our  
letter of the 11<sup>th</sup> inst. and to inform  
you that we have been charged by  
the German Edison Co. to ask you  
if you could send them a good  
Director for the lamp-factory they  
wish to establish?

Please let us know also which  
terms should be asked by this Director  
to the German Co?

We remain, Dear Sir,  
Yours faithfully,

SOCIÉTÉ ÉLECTRIQUE EDISON

*[Signature]*

Impossible for us  
to do so at present we  
need every man on business  
having temporarily increased

on list





<sup>13</sup> by me at the Crystal Palace, Holborn <sup>1883-07-16</sup>  
Viaduct - & will say I did not earn  
every penny of it.

If you want to know why I  
resigned from the Co, leaving a  
splendid position, fine prospects &  
a large salary & I will give you  
a short answer - an answer which  
might apply to most of the dis-  
agreeable & troublesome things con-  
nected with the English Co, it is -  
- Arnold White - I will say how-  
ever that you are enough of  
a judge of human nature to  
know I did not - it for any  
petty, fit of temper - spite - or pride.

If you want to know why I  
after leaving the English Co. Ho-  
wever I remained in London do-  
ing little besides writing &  
reading, refusing seven (?)  
distinct outside offers two  
of which offers would have

<sup>1883-07-16</sup>  
# give me a higher salary than that  
of the Edison Co & finally spending  
every penny (I mean too) which I pos-  
sessed. That said: not in riot-  
ous living" for my time was well  
spent: though I earned but little  
- I will tell you that it was in  
order that Thomas A. Edison &  
Edward. H. Johnson should not  
misinterpret my actions & motives  
& understand that I intended to  
stick to the Edison ranks and  
before doing anything else - let  
what it may - set myself right  
in their eyes. I know Mr Johnson  
whom I count - as one of my  
best friends and moreover a  
man of the kind of grit and  
quintessence stuff not many men  
are made of - has spoken to  
you as he promised to do to  
you and I want further to  
say that while I have plenty

1883-07-16  
5/ of pluck, perseverance & hard work  
to keep my chin above water  
I am anxious that one who  
has worked, is working & will  
work as hard for Mr. Edison's  
interests shall be justly  
judged for that is every-  
thing to him I assure you.  
- I will close now hoping  
perhaps you will drop  
me a personal line in  
return with sincere respects

I remain

Yours very truly

H. W. J. Hammer

Chief Engineer

Deutsche Edison Gesellschaft

Berlin

96 Leipziger Strasse

To Mr. A. Edison,  
65 Fifth Ave  
New York City  
U.S.A.

1893-07-16

S. No. \_\_\_\_\_

## DEUTSCHE EDISON GESELLSCHAFT

FÜR ANGEWANDTE ELEKTROTECHNIK.

INTERNATIONALE ELEKTRISCHE AUSSTELLUNG  
GROSSES EHREN-DIPLOM  
Paris 1889.TELEGRAMM-ADRESSE:  
Edison Berlin.

Reichsbank Giro-Conto.

BERLIN W., den  
96 Leipziger Strasse.

Berlin July 16 1893

My Dear Mr Edison

In a recent letter to Mr Rathenau you requested that you might be kept acquainted with the work which the German Edison Company had in progress and under consideration from time to time and Mr Rathenau has requested that I shall assume this responsibility which I do with pleasure and I will endeavor to keep you posted upon all matters relative to our company's operations which will prove of interest to you, At present our operations are not very extensive as the practical organization of the Company has but just been effected but we look for great things in the near future believe we have the practical monopoly for the Incandescent Light in the German Empire. The company has but recently completed several installations in different parts of Germany and has now in hand a number of others both inside & outside of Berlin a further

1883-97-16

2/ reference to which I will make at another time as there are many important topics which I shall have to refer to, We have a very fine though small installation of the Edison Light at the Berlin Sanitary Exhibition and it is one of the principal features of this successful & largely patronized Exhibition, We shall send you further information of this also, Next we have here in Berlin two important Club houses the Resource and the Union Club lit-up with the light the former employing a "L" the latter an "L" Dynamis We have just completed the plans for a Central Station which will be commenced upon this week which will take in both these clubs which will employ the light hereafter throughout the entire buildings and also take in the Berlin Aquarium and an adjoining private house, besides this small installation we have also under consideration a larger installation situated in the centre of a large and important block of buildings which on account of the character of the business carried on i.e. (Cafe's Restaurants, Hotels Stores & Private houses) will give us a large number of lamp hours the property we have in view for the Central station will allow of our employing three (3) of the "C" or Central Station Dynamis.

If there is also a project under consideration <sup>1883-87-14</sup> which  
 is I believe the largest of its kind as yet  
 brought forward although it is almost too  
 early to make any definite statements con-  
 cerning it. It consists of a project for estab-  
 lishing a Central Station for fifty thousand  
 5000 Lamps which will take in one of  
 the most important centres of Berlin and  
 include some of its principal Governmental buildings.  
 There are a number of other projects on foot  
 for Central Station & Isolated Lighting of which  
 I will let you know hereafter, but I am cer-  
 tain in a short time you will see that  
 the Edison people in Germany do not lack  
 enterprise and that the Company is in the  
 hands of men of energy and ability. The Co.  
 has recently taken very fine offices upon one  
 of the principal corners in Berlin has appoint-  
 ed agents throughout the Empire and is now  
 engaged in a systematic course of adver-  
 tising in the principal Technical, Trades  
 & other Journals in order to bring the Edison  
 Light before the people. Still it is con-  
 sidered of of vital importance that the  
 Company should have installations and

4) and above all a Central Station in operation <sup>1893-07-16</sup> in Berlin as a practical demonstration of the capabilities and commercial value of the Edison Light, this done in Berlin we fear nothing elsewhere. Now leaving the <sup>question</sup> discussion of the Co's projected work for a future occasion I will speak of a number of important matters which relate to other affairs.

I will you kindly have a set of all drawings, Blue Prints & relative to Central Station work, Form Plant-Work & sent to us at once you will see the importance of this from my letter and I beg to state that in these matters the Company desires to look to New York rather than to Paris & other Companies and Mr Rathenau requests me to say that the Co here feels these things are its due but they are very willing to bear any expense consequent upon the preparation & completion of them.

I We should like also copies of any estimates for construction & maintenance of Central Stations of various numbers of lamps including any statements you may possess relative to the Central Station in New York for our guidance in our work here,

Plans, Blue Print &

Estimates &

1893, 07-16

5/ III We should like to know if you consider it necessary in the event of our starting a Central Station such as I have herein mentioned that we should lay it out similar to your plan of German silver coils made at Menlo Park & since made by Mr. Batchelor or do you consider that if plans, distances, approximate distribution of lights &c, were sent either to New York or Paris such an estimate of proper distribution, main feeding points &c could be made

IV We have just sent to Paris for a complete set of samples of the new three wire system of distribution and we shall be glad to hear from you the results of any experiments, estimates &c based upon it; I will also say that Mr. Rathenau wishes that at any time as new features and improvements are made that you will send us at once samples of same and inform us (by cable if necessary) of any changes desirable, I have mentioned this in a recent letter to Bergmann & Co & we trust we shall always get at once the latest & the best and I might also add that we

Distribution System.

Three wire system samples &amp;c



1883-97-16

6// *Forwarding Goods* hope our recent order will be filled and forwarded as soon as possible. Please see that all B & Co's cases and all from Machinery Books are carefully addressed, classified, & numbered with some distinguishing marks thereon for our guidance. I remember we had at times much trouble from want of this care in London more especially in material received from Goerck St;

*Bulletins &*  
V. Please have a package of all the back Bulletins sent us and as each number is issued please see that we receive a number. I have mentioned this in a letter sent to Major Eaton but mention it again to you as we have none of the numbers at present.

*Lamp Factory.*  
VI. Another important undertaking the Company now has in view is the establishing of a Lamp Factory and the Directors desire that you will send us at once the best man you have who is capable of organizing & taking charge of our factory and if you have such a man whom you can spare but for a time the Company would like him at least to

17/ remain until things are in running order and  
 we have a man of our own in charge. 1883-07-16

VII

The Company desires also an estimate of what you would furnish complete for an Installation Lamp Factory for Germany capable of supplying five hundred (500) Lamps per diem. This to include the Archimedes Pump, Shipping couple, Resistance Boxes for Pumps, Regulating devices, and in fact all the machinery tools & appurtenances for the Glass Blowing, Plating, Mounting, Plaster fitting & all departments now in the Carbonizing & Fibre - as we shall probably get our Carbons ready for mounting direct from Paris. This estimate it is scarcely necessary for me to add we desire at earliest possible date. and in the event of our at once securing a man from you he must come with all necessary plans & samples to in order that our company may not repeat the great delays and enormous outlays of the Co. in France & while we trust greatly to profit by both their & your experience we prefer as far as possible to deal directly with you in these matters and feel assured of your assistance.

VIII July 17<sup>th</sup> I have just shown this letter to Mr. Rathenau. and he has approved of it and

S/ requests me to add one or two things further <sup>ESS-07-16</sup> <sup>finally</sup> please send us at once an estimate for supplying in large quantities the outside balls

! The inside parts with platinum wires & clamps already prepared for mounting carbons in sockets and also what you will furnish us in large quantities the Carbons all ready for mounting, as we desire if possible to make such an arrangement with you if possible for this will facilitate greatly the starting of our Lamp factory & getting it in good running shape

IX. Please cable when we can expect mail from America

X. Mr Rabinan says we can at any time deliver you cash in New York through representative bankers there upon statement of delivery of goods.

XI. The new "K" machine is on way now to Siemens Halske mill test before taking apart other machine not heard from as yet. As we have no stock of Dynamos must have at once please hurry up other models as fast as possible

Lamps

Mail

Cash

Dynamos

1883-07-16

XII.

Mr Rathenau suggested the idea of using in a central station a separate condenser for all the engines which ~~are~~<sup>is</sup> driven by an independent engine. He estimates a saving of 25% at least thereby. What do you think of it? Also do you not consider that there is a valuable income to be derived from employing steam in heating during winter months in connection with lighting thus effecting a great saving in running expenses in the day.

XIII.

What do you think of compound motion machines? Nearly all the principal makers are using them & we believe there is much in them. An American in a recent paper publishes tests showing the perfect regulation & economy of London also has. Have you made any experiments upon this line and do you not think it cheaper, more reliable & less complicated than the automatic regulator. I will now close with very sincere regards from all the people here remaining very truly yours  
J. B. Hammer

1883-07-17

S. No. 2490. DEUTSCHE EDISON GESELLSCHAFT  
FÜR ANGEWANDTE ELEKTRICITÄT.

INTERNATIONALE ELEKTRISCHE AUSSTELLUNG  
GROSSES EHREN-DIPLOM

Paris 1881.  
TELEGRAMM-ADRESSE:  
Edison Berlin.  
Reichsbank Giro-Conto.

BERLIN W., den 17<sup>te</sup> July 1883  
96 Leipziger Strasse.

Dear Sir

Write & say he have attend to  
Every request of Mr Hammer &  
with pleasure to give all the aid  
possible - Edison

By our request Mr Hammer wrote you  
to-day an extensive letter to which, while confirming  
it, we beg to call your very best attention as the  
matter it contains is of very great importance to  
our business.

We trust that Germany will soon take the  
lead in electric lighting on this continent  
and we want to be in a position to carry out  
all the work connected therewith in full rate style.

Mr Hammer having exhaustively expressed  
our views and desires regarding the different  
matters we abstain from again referring to any of  
them and merely beg you will do all in your  
power to assist us in our endeavours.

We are, Dear Sir

Yours very truly  
DEUTSCHE EDISON GESELLSCHAFT  
FÜR ANGEWANDTE ELEKTRICITÄT,

Mrs. Mra Edison by  
Hammer's Bank  
New York U.S.A.



Offizien H. Hugo Fischer

1873-07-12

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'honneur  
PARIS 1881

Ivry-sur-Seine, le 15<sup>e</sup> July 1883  
5, RUE DU PARC.

493

*Aut*

Edison Co.  
65 Fifth Avenue  
New York.

New machines

My dear Edison:

I called you to day as follows:

Mail immediately dimensions all new machines

which I now compare and await your reply.  
As regards the cable you will remember that as you did not see fit to send the model I saw to Germany, I am without accurate details of your changes and am working on my own judgement. Please send me everything as you make the alterations so that our machines will always be alike in every particular & will interchange as near as possible.

Italian Co.

Your letter to me on Italian affair, I have sent on to Baring praying him to get a settlement of same immediately and, if not there to give me all the help he can to get it settled here. I hope this will be done in the briefest delay.

Yours faithfully,

Chas. Batchelor

1883-07-21

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1.500.000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'Honneur  
PARIS 1881



Ivry-sur-Seine. le 21<sup>e</sup> July 1883.  
5, RUE DU PARC.

Edison Lamp Co.  
Chest Newark, N.J.

Gent<sup>l</sup>

Enclosed please find order for the following filaments

5000	filaments cut	$6\frac{1}{2} \times \frac{7}{1000} \times \frac{17}{1000}$	} which please send as soon as possible, and collect from E. I. & Co. for our account.
5000		$6\frac{1}{2} \times \frac{7}{1000} \times \frac{15\frac{1}{2}}{1000}$	
2500		$3\frac{1}{2} \times \frac{7}{1000} \times \frac{17}{1000}$	
2500		$3\frac{1}{2} \times \frac{7}{1000} \times \frac{15\frac{1}{2}}{1000}$	

I wish it to be distinctly understood that if you have not got or cannot send us the filaments wanted, you must send nothing else as otherwise I cannot allow the Co. to pay for it.

Have them properly packed and notify us full shipping particulars; mark them "Bamboo splints" and do not, under any consideration, send them so as to cost as much for transportation as it is possible to charge as you did with our last case. (3)

Yours faithfully

pour la SOCIÉTÉ Industrielle et Commerciale EDISON

*Charles Batchelor*

1883-07-26

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ELECTRICITÉ

Grand Diplôme  
d'honneur  
PARIS 1881

501

Ivry-sur-Seine, le

5, RUE DU PARC.

26 July 1883

M<sup>rs</sup> A. Edison

New York.

My dear Cousin,

One of my men brought a 100 candle  
Lamp specimen lamp combusted in Germany and  
I give you a test of it I have made

When I got it it tested as follows:-

Resist cold	42 ohms		
Resistance hot	22.9	at 100 candles.	
" Volts "	102	" " "	
" Amperes "	11.45	" " "	
" Kilogramms "	46.3	" " "	x 440 for ft lbs
Lamp per hour p.	1.6	" " "	

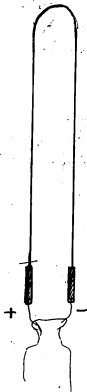
At the end of 7 hours this lamp was rather  
black.

At the end of 25 hours it tested:-

Resist cold	44 ohms		
" hot	17.1	at 100 candles.	
" Volts "	115.2	" " "	
" Amperes "	6.73	" " "	
" Kilogramms "	49.1	" " "	
Lamps per H.P.	0.9	" " "	

At 32 hours it broke

The length of carbon arc was 7.875 inches  
" diameter averaged .026 of an inch but was  
 $\frac{.27}{1000}$  in some places and  $\frac{.24}{1000}$  in others -





1883-07-26

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

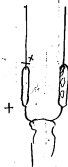
Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ELECTRICITÉ

Grand Diplôme  
d'honneur  
PARIS 1881

IVRY-sur-Seine, le  
5, RUE DU PARC.

Its section was <sup>2</sup> like this; so much so that I am almost sure it was a bast fibre. Its surface for illumination was  $\frac{1}{4}$  inch, about or equal to  $\frac{1}{1000}$  of a square inch per candle. It was fastened to the platinum wires by a thick piece of fine plumage, paste baked hard. The drawing is exact for length and width also for size of clamps. It had 10 leading-in wires on each pole each of  $\frac{1}{1000}$  diameter.



It broke at 'X' on the positive side carbon good in every way, besides the plumage marked '0' was considerably torn as if it had been arcing.

It got very black indeed before it broke in fact I believe the paper of carbon (as it were) conducted across where it was arcing.

After it went the globe was perfectly black in A and not blackened at all at X.



Very truly yours

Chas. Batchelor

Upston

Return after peruse  
Induct

1883-07-30

*Dyer*  
*will you attend*

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE DES ARTS ET DES INDUSTRIES

Général-Diplôme  
d'Inventeur  
PARIS 1881



(RECEIVED)  
AUG 11 1883  
ANSWERED

.....183...  
FILE NO. ....

Patents.

My dear Edison.

On the 9<sup>th</sup> June last I called on you as follows:

"Arranged guarantee nothing if cannot give him two months prepare filing and cable forthwith before."

I wrote Dyer on this subject June 9<sup>th</sup> and

as yet have no answer.

We lost in Germany 52, 59 & 60 through not having sufficient time, though as regards 60, principally from the fact that Stephenson had done it in England. The Compagnie Continentale Edison, also wrote to Dyer on these questions, on 11<sup>th</sup> June, likewise without reply. 62 & 63 (Notes & distribution) are all ready but I assure you we run great risk of losing them in Germany if you cannot comply with my cable of 9<sup>th</sup> June.

The German contract obliges the C<sup>ie</sup> Continentale Edison to give them all patents of Edison till 1886 and the loss of the above has caused them to threaten the C<sup>ie</sup> Cont<sup>le</sup> with the consequences, if the same should occur again.

Will you kindly see that they get answers to requests in future as it causes me very much trouble sometimes?

*to this*  
*Edison*  
505

Ivry-sur-Seine le 30<sup>th</sup> Juin 1883  
5, RUE DU PARC.

*Journal*  
*As you are answered from me*  
*embrogement Car. The*  
*65 Fifth Avenue they ask for*  
*New York that the patent in*  
*with are not to be refused*  
*Germany is on second*  
*Edison is on second*  
*Edison is on second*  
*Dyer*

1883-07-30

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1.500.000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'honneur  
PARIS 1881

Ivry-sur-Seine, le  
5. RUE DU PARC.

(cont?)

Case 14. The German office has rejected claims 1, 2 & 5 on the ground that anyone can make these applications, the B. Court has appealed and hopes to get it.

As the German patent office seems to have remarkable ability for cutting out of our applications the best claims and leaving us the material that is worth nothing, I think I shall advise our Company to let the patent business change into the hands of the German Co. who will keep experts to put these patents through & wish even to do so

Very truly yours

Chas. Ketchum

Blank No. 3

No. 107

**CABLE MESSAGE.**

1883-97531  
206  
#25

**THE WESTERN UNION TELEGRAPH COMPANY.**

All CABLE MESSAGES received for transmission must be written on the Message Blank provided by this Company for that purpose, under and subject to the conditions printed thereon, and on the back hereof, which conditions have been agreed to by the sender of the following message.

A. R. BREWER, Secretary

NORVIN GREEN, President.

Check.

*J. Milan*

*Edison N.Y.  
6.5 = 5 Ave*

Received at

**731 BROADWAY**

*July 31 1883*

*Is 1400 amperes dynamo ready  
Colombo*

*4.*

1873-07-31

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme. Capital de 10,000,000 Francs

EXPOSITION INTERNATIONALE D'ELECTRICITE

Grand Diplôme

Honneur  
PARIS 1881

Paris-sur-Seine le 31<sup>r</sup> July 1883

5, RUE DU PARC.

100

E. A. Edison Esq<sup>r</sup>  
New York.

Copy of letter sent to-day to Major Eaton

My dear Major

When I was in New York in the spring of this year I got the estimates for reproducing the working half of the present Central Station with its necessary mains. This, Edison and I agreed, could be done for \$166,000.

This made quite a respectable showing and I understood that these figures should be sent to me in decent shape so that I could give them to our people - I have explained the figures that I brought, but have never received them officially and the failure to send them causes me not a little annoyance sometimes.

If you can send me these figures, or if you can send me the altered figures (if you have altered them) I shall be obliged, as it is very disagreeable to have such things occur as the following: - In talking of an estimate that I had made, Mr. Pergie made me the following remark "Yes! that's good but then when you came from America you told us that the working part of the Central Station in New York could be reproduced for \$166,000 & when Mr. Meadowcroft came he said it would cost \$255,000" - Now as Meadowcroft came direct from you as the President of the Company he naturally thinks I have purposely tried

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital : 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'Honneur  
PARIS 1881

Ivry-sur-Seine, le  
5, RUE DU PARC.

(cont<sup>e</sup>)

to deceive him.

Please send me these new figures, showing how it is increased  
to P. 255,000.

Very truly yours  
(Sg<sup>o</sup>) Char. Batchelor

Blank No. 8

1883-08-02

No.

21100

CABLE MESSAGE.

235

THE WESTERN UNION TELEGRAPH COMPANY.

ALL CABLE MESSAGES received for transmission must be written on the blank form provided by this Company for that purpose, under seal, subject to the conditions printed thereon, and on the back hereof, which conditions have been agreed to by the sender of the following message.

Check.

16 Ivory

A. R. BREWER, Secretary

NORVIN GREEN, President

Ednoside My

Edison 65 = 5 Ave

Received at

791 BROADWAY

Aug 2

Send sketch hundred light  
also thousand carbons each  
eight ten sixteen thirty  
two latest

ask dean when sketch 100 Batchelor  
might be ready - send order for carbons to Lamp factory  
to ship to Hamburg or Guelph place of small  
Paris, but not to Paris.

Handwritten notes and stamps on the right side of the document, including a date stamp "AUG 2 1883" and some illegible scribbles.

1883-08-07

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON  
Capital Anonyme, Capital: 1.500.000 Francs  
EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ  
Grand Diplôme d'Honneur  
PARIS 1883  
RECEIVED  
AUG 20 1883  
ANSWERED  
FILE NO. 1883  
Edison  
14 X machines  
constant load every  
evening of 400 amperes

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ  
Grand Diplôme d'Honneur  
PARIS 1883

Ivry-sur-Seine le 7<sup>th</sup> Aug 1883  
5, RUE DU PARC.

RECEIVED  
AUG 20 1883  
ANSWERED

Edison, Esq.  
151 East Avenue.  
New York.

FILE NO. 1883

Older H-gens as 400  
ampere - Jaws are widening  
with larger wires & will get 400  
ampere  
Don't  
other  
Don't  
other

In the ordinary L. machines we have 60 sq. ft. of every square inch of cutting surface. This is equivalent to 230 circular mils of section for every ampere of current passing. As many of my machines run all night I find that this is as much as I dare put through them unless we use a blow. Your new H., as I learn from a letter from you to S. J. gave for a short time, 400 amperes and, from measurements given, I find that it had only 161 circular mils per ampere so, in order to be safe this ought to be a 310 ampere machine, eh?  
The first new machine I made was 120 light; this was a well insulated B armature, made 3 centimeters longer with iron cores 28 1/2" long, insulated with 9 layers of M. 16 wire. At 1250 turns we have 105 volts with 90 amperes. I can take 150 amperes out of this for a short time but it is for 90 to be perfectly safe for long running. After these measurements I have made



1883-08-07

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'Honneur  
PARIS 1881

Ivry-sur-Seine, le  
5, RUE DU PARC.

2

2 L. machines for ships, which give their 100 lamps with 475 turns, this number being absolutely required by the American navy.

Till him today to Bailey that  
that we will do our best to  
+ if he can do - taking in anything  
Hepkinson.

I must have your opinion on the value of Hepkinson's improvements; he is continually at Bailey about them, and Bailey seems as if he desperately wanted to give Hepkinson royalty or buy what he has got. We have just a letter from him in London in which he says Dr. H. had a K which gives 600 lights easy and they want use to go to Massachusetts to test it. Pray the alterations of the length of magnet is not patentable and H. cannot claim anything on it & therefore it is useless to make a contract for a thing that is open to all.

To help to stop their mouths I am making my K with an armature a little larger in diameter which easily allows me to give a machine of 400 amperes that will run day and night & I believe this will equal what he has got. I understand H. has said he should make a bar armature for this machine and take out 1000 lamps. If he takes them out in the same manner as Graziopoli's test of his dynamo I would not give much for it in practice at that number.

If you see anything in this that wants correcting tell me so quickly; - I don't feel satisfied with the Berlin model.

1883-08-07

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital : 1.500.000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'honneur  
PARIS 1881

Ivry-sur-Seine  
5, RUE DU PARC.

1881

3

because I am afraid that Bailey will make some arrangement with H. if I don't have something always as good.

Lamp tests. Received 922, 926, 938, 941, & 955, these are magnificent.

We are now making long carbonizations & will send you tests.

You must remember that our fibres as yet are only 6" long.

The light. I have received your bill for 6 arc lights complete with globes and carbons, value \$113.20. What is this?

Is it the Dr's are light because, if so, it was understood between Navarre & myself that he would send these 6 as experimental ones and I did not expect to pay anything for them.

Yours faithfully  
Chas. Batchelor

This will = Explain the  
write to G & Co about  
Arc lights

1883-08-10

## SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital 1.500.000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme d'Honneur  
d'Honneur  
PARIS 1881

J. A. Edison &amp; Co

Ivry-sur-Seine, le  
5, RUE DU PARC.Aug 10<sup>th</sup> 1883.65 5<sup>th</sup> Avenue.

Lamps made by  
Friedrichs & Greiner } the carbons said to be made of  
Muningen, Germany. } for treated with acids etc. ---

Form almost same as Edison -

6 lamps received marked 99 volts &amp; said to be 16 candle.

At 76 C.P. these tested as follows:-



	1	2	3	4	5	6
Resistance Cold	305	280	305	310	300	290
" Hot	158	142	152	161	154	154
Volts	104	105.5	105.2	107.8	105.8	107
Amps	.68	.74	.68	.71	.68	.68
Kilogramme	6.9	7.9	7.3	7.8	7.3	7.4
Lamps per H.P.	10.5	9.5	10.2	9.6	10.2	10.1

+ At 64 candle 1, 3, & 4 broke immediately, so  
then other 3 at 16 candle for

No 2 lasted 7.32 min

" 5 " 109.20

" 6 " 298.09

3 ) 414.61

hr. 138.21 average life

Before breaking all were rather badly discolored  
on the glass

1883-08-10

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
D'Honneur  
PARIS 1881

2.

Ivry-sur-Seine, le  
5, RUE DU PARC.

Size of Carbon after Carbonization: -

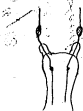
4.428 inch X .0045 X .008

Illuminating surface .1104 square inch

" " per candle .00692 sq in.

Leading in wires .012 diameter

Section of carbon



Clamps made of carbon evidently put on  
in a soft mixture & baked on

Yours very truly  
Chas Patchett

This is a very poor record for  
the Germans. Perhaps Patchett has  
weakened on the virtue of this particular  
form of carbon. JRU

1823-02-10

SOCIÉTÉ ÉLECTRIQUE EDISON  
SOCIÉTÉ ANONYME  
Au Capital de 1 million de francs  
EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ  
Paris 1881  
GRAND DIPLOME D'HONNEUR  
Adresse Télégraphique :  
EDISON - PARIS

not come.

Paris, le 10 août 1883

Don't believe my <sup>friend</sup> ~~friend~~

Paris might do  
My dear Mr Edison,

I have sent Major Eaton a long letter, and a skeleton of plan for an International Society yesterday from London. During the next two weeks I remain here for Mr Row to take his vacation, and to get up a complete plan for the International Company. You will see, a letter sent to Major Eaton two days ago about the Central Station balance sheet. Will you not help to get that sent here, and also official figures as to present cost of mounting central stations. You will see in letter to Major Eaton the reasons, and I assure you that any balance sheet whatever, even one showing a loss, is better than silence.

The balance sheet should be accompanied with an exact statement of the number of dynamos in operation at different periods, and of all those circumstances that you know and of which others know nothing that have embarrassed the development of the 1<sup>st</sup> station.

Such a statement, as this will command confidence. As it is we are met on all sides by statements that the station is a failure, and people receive with incredulity all that we can say. e.g. I receive the following in a letter from the Vice President of our former Co this morning. "The unfavorable financial results of the Central Station at New York were certainly known to an initiated circle." - Every day that passes without a complete official statement is an added prejudice to our common interests.

373E

1883-08-10

Johnson says that our terms dwindle in negotiations. It is my business to put terms in the first place that are agreeable to you, and to the Davis Companies. If I had begun on the low key they and you would have said with reason that the business was sacrificed through lack of confidence, and assured in making terms. So I have contacted the terms on a descending scale till everybody here is convinced that the high terms started with are impracticable and every one is fully agreed on a basis that is possible. No one can charge or struggle against the circumstances that imposed these conditions and you have practically no choice as to accepting them. I speak with confidence after several months passed in discussing the matter in almost every country on the Continent.

I find that financial men are entirely sound when they reply to the brilliant prospects held out to them, "Very well, if your affair is so good, you cannot desire better than to participate in the profits."

And in fact take the case of a company organized with 1,000,000 £. Capital. If you receive 15% of the Capital you have 150,000 £. Suppose the dividend to be 10%, you receive 15,000 £. revenue. With the same profit the shares receiving 6% preference you would receive 20,000 £., if 20% profit you would receive 30,000 £. only, while on the participation in profits you would receive 70,000 £. Now if you give 8% preferred you get 60,000 £. — It may be answered that you get this amount (the 15%) at once and certainly while the other is deferred, and dependent on administration. This is true, but the Capitalist has the answer that this is an unfair odds against him and the public who risk

their money, and I assure you they will have the last word.

Where there is a preference dividend to the Capital and a division of profits afterwards between the share-holders and the promoters and donors the guarantee for the latter is a very good one.

I think £ 50,000 can be obtained without difficulty from a Company organized with a first emission of 30,000,000 to 50,000,000 fr. and if a preference dividend of 8% is conceded, a royalty of four or five cents per lamp.

You can figure better than I can the number of lamps consumed yearly in an exploitation employing a Capital of 50,000,000 fr. Supposing it to be 1,000,000 a royalty of 5 cents would give you in advance of the dividend to the shareholders a sum equal to the one per centum of preference dividend.

If the business is a good one I think the terms now proposed for an International Company are better than those we have hitherto tried to get.

It is unfortunate that it was necessary to make the arrangement with Pavaud in England before the Continental affair is made up. Union with Pavaud will probably be imposed on us by the fact of the union in England, and the first terms having been made where he is strongest it will have an unfavorable effect for us.

Referring again to the proposed International Company the creation of such a Company will assure a virtual monopoly for the Continent, and will prevent the business being cut up by intruders and competitors.

There is a great difference as to conditions in such an affair in England, the United States, and here.

In England and the United States the first impulse of every man when you say 'monopoly' is to pick up a stone to throw at it, but it is very different on the Continent. The formation of such a Company as that proposed would prevent the putting of capital into any vital affair.

An additional reason for such a Company is that I am now fully satisfied that in Spain, Austria, and Russia no considerable capital can be obtained, and if it could be obtained the results to us would be absolutely nil. They are not accustomed to the administration of such affairs and besides by one means or another we should be cheated out of our part. With a strong International Company these countries will give the largest returns on the capital employed.

Also with such a Company, Holland, Switzerland, Greece, Turkey and Roumania will be held just as firmly as the countries where there are patents, and the same remarks apply, as above to Spain, Russia and Austria.

The fields of exploitation in which the vendors participate in profits is thus enlarged, and a profitable exploitation is assured in countries where otherwise no good result is to be hoped for.

It has been impossible for me to present to you these considerations before, because they have only become apparent from the study and reflection of the last months.

Everyone here is agreed on the above points, and it is only a question whether the Company will



1883-08-10

5

I have its principal seat in Paris or London. Mr. Leoni is working in Paris for the former, while I work for London, to see from which we can get out the best results. The ideas and the terms of negotiation are the same.

Hoping that they will commend themselves to your judgment,

I am, very respectfully & truly yours

J. D. Bailey

Thomas A. Edison Esq  
President.

1283-08-20

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'honneur

521

IVRY-sur-Seine

5, RUE DU PARC

PARIS 1881

Aug. 20<sup>th</sup> 1883

Wm. A. Edison Esq.

New York

My dear Edison,

I think the time is not far distant when I shall be able to get away. I am just about to put a director in at the fabrique so that I can leave it a little for more important work.

Bailey and Lewis new company is coming along well and I think will soon be closed. It will give a better result to the European and make it worth a saleable article. It will have plenty of money to make any installation it like. It will not be controlled by Storge who I must say is the most disagreeable man I ever met; he will do nothing himself unless he gets another grip on us, and he holds out continual threats of closing up the companies etc, etc.

Lamps. You must see get any trade from here by offering at low price so I would immediately send them such price. I am certain that in Germany and France lamps can be made much cheaper than your price and I will do all I can to stop the making of fabriques at present. Make your price for 10,000 - 25,000, and 50,000 assorted at a time

They may want me to take a position in this  
new company to help in organization of its work,  
but if I meet your views I shall take none as that  
I can skip immediately I see the chance

Yours as ever

Chas. B. Nichols

4  
August 1883  
Chas. B. Nichols  
is this new Co

1883-08-22

COMITATO  
PER LE APPLICAZIONI DELL'ELETTRICITÀ  
« SISTEMA EDISON » IN ITALIA.

Via Manzoni, 12, A

MILANO, 22 Août 1883

Indirizzo per Telegrammi  
EDISON - MILANO

Stock de Materiel

	Voire facture	Notre Inventaire	Differences en moins
Dynamometre Z	2	2	—
Regulateurs	2	2	—
Changep A	2240	2200	40
" B	1000	1000	—
Doigttes a cle	180	160	20
Coiffe "circuits	70	60	10
fonctionnel en planch	350	300	50
Petit rotateurs	350	300	50
Grand " "	100	100	—
Boisnet "	50	40	10
Platans	48	43	5
Kiloh fils assortis	1059	1059	—

Blank No. 2

1888-08-23

No. 246

CABLE MESSAGE

246

THE WESTERN UNION TELEGRAPH COMPANY.

City, Berlin

Edison

ALL CABLE MESSAGES received for transmission must be written on the message blanks provided by this Company for that purpose, under and subject to the conditions stated therein, and on the back hereof, which conditions have been agreed to by the sender of the following message.

A. H. BREWER, Secretary.

HERVIN GREEN, President.

65 Fifth Ave  
my

852 B 70  
Received at 10th Ave

Aug. 13 1888

Cable opinion Capacity  
A machine haske  
Edison

We are running fourteen at Louisville  
four hundred amperes.

1883-08-28

C<sup>ie</sup> CONTINENTALE EDISON  
SOCIÉTÉ ANONYME  
Au Capital de 1 million de francs  
EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ  
Paris 1881  
GRAND DIPLOME D'HONNEUR  
ADRESSE TÉLÉGRAPHIQUE  
EDISON, PARIS

Paris, le 28 August 1883

Refer to Dyer  
for full  
Thomas A. Edison, Esq.  
New York.

Dear Sir,

We beg to confirm our respects of yesterday & wish best with to state that we have never received an answer to our various letters started hereafter & addressed to major Dyer.

- 1<sup>o</sup> Letter of the June of Mr. Bataillon
- 2<sup>o</sup> our letter of 14<sup>th</sup> June asking kindly to send us original patents

France set 12 R.R. case  
Belgium " 9  
German " 2

Which had been forwarded to Stull.

- 3<sup>o</sup> our letter 29 June various matters.
- 4<sup>o</sup> our letter 2<sup>nd</sup> July sending you lists of patents of Chapman, Swan, Marx and etc & form for receiving patents in Italy.
- 5<sup>o</sup> our letter 23 July 1883 on issued of Austrian patents.

We are waiting for a reply to this last letter before we have our Austrian patents following set 3<sup>rd</sup> issued.

P We would be much obliged if you

Would call the attention of Major Dyer to  
the fact that his not answering letters of our patent  
matters may prove very detrimental. We would  
be much obliged if you would see that hereafter  
we get regularly a reply to our letters.

Yours sincerely

COMPAGNE SCIENTIFIQUE EDISON

~~Edison~~  
Paris  
Mr Dyer  
at answering  
letters

Compagnie sc.  
Scientifique

August 27th  
1878

2

1883-08-29

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme 525  
d'Honneur  
PARIS 1881

Ivry-sur-Seine, le  
5, RUE DU PARC.  
Aug 29 1883

Samuel Insull Esq  
My dear Insull, New York.

New York Stock.

Is there any possibility of your arranging for the payment of the sum mentioned in the enclosed letter from the Edison G. L. Co namely \$3,810? As I know Edison cannot be flush it would be better to sell something to pay it would it not?

Pro-Limites  
Patents

I have instructed Brandan (who took these patents) to pay the annuities for France and Belgium. This will be done immediately and in a few days I will send you the receipts. This I have done in accordance with your letter of Aug 14 enclosing Terrell's letter of Aug 10<sup>th</sup> 1883.

Prices of fibres.

You people are getting me into a devil of a snarl over these prices and if you knew the difficulty of explaining away a change in price with a Frenchman and how it has to be investigated you would not do it

The 21 July I sent you an order for 15,000 fibres the 3 Aug I sent another order of 10,000 fibres these were sent because Upson had given me the prices in a letter (of which he has a copy) dated May 14 1883. These prices I asked him



1883-05-29

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1.500.000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'Honneur  
PARIS 1881

2

Ivry-sur-Seine, le  
5, RUE DU PARC.

for when Edison and I were at the Lamp  
factory and when he gave them me it was under-  
stood that the Lamp factory could make plenty  
of money at those prices - these prices were  
for any fibre

\$5 per 100

\$40 per 1000

\$300. per 10,000

Now after having ordered 25,000 a letter coming from  
Upton at Lamp Co says that he shall charge -

	fibre	Carbon
B	2½ lbs each.	3½ lbs each
A	4 " "	5½ " "
32 c.p.	5 " "	6½ " "
50 c.p.	5½ " "	7½ " "
100 c.p.	6½ " "	9 " "
10 c.p.	5 " "	7 " "

entirely ignoring that in a previous letter he  
gave me a price of 30¢ each all round  
for fibre if I ordered 10,000 at a time -

This probably could have been got over but later  
the Société Industrielle received a letter from  
Edison in which the prices are again raised as

	fibre	carbon	50 c.p. — fibre	carbon
B	2½ lb	5 lb	10¢	12¢
A	4 lb	7½ lb	10 c.p.	—
32	7 lb	12 lb	—	—

I agree with Bateston, I had long (1883)

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

argument with ~~Edison~~ <sup>Edison</sup> about the price

EXPOSITION INTERNATIONALE DES PRODUITS

Grand Diplôme

PARIS 1881

Ivry-sur-Seine

5, Rue du Parc

It is so almost cute that one has

thus reaching as you see in some cases generally 4 times the price originally given by Edison.

The total cost of a fibre to us here after all inspection is made and all bad thrown away is 7 1/2 cts and the total cost of a carton after its resistance is determined and all bad thrown away is 3 1/2 cts these prices allow for all depreciations & expenses of whatever kind that can happen such as losing an entire carbonisation occasionally, depreciation of furnace, etc. etc. etc.

I must here remark that to charge 12 cts for a 325 gr carbon is an outrage - It is exceedingly difficult to get anyone here to consent to sending an order to America for anything, and invariably when they are persuaded to do so they have difficulty with badly packed material, broken pieces, and now enormously higher prices than those represented to them -

Why did Edison give me those prices of May 1883 if he did not intend to stand by them for at least the first orders - If it is necessary you must stand by one for the orders already given as you see such differences cannot be satisfactorily explained

Very truly yours  
Chas. Bateston

Edison better than that. Fibres will be changed at 3 doubling runs. All

1883-08-29

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'Honneur  
PARIS 1881

Ivry-sur-Seine le 29<sup>e</sup> Augt 1883.  
5, RUE DU PARC.

E. S. Edison Esq<sup>re</sup>  
New York.

Dear Sir,

We duly received your letter of 17<sup>th</sup> inst. contents of which are noted.

As regards the prices given therein for unsparked filaments we are astonished to find your charge so high for them; we have not yet received the bill for those ordered by us on 21<sup>st</sup> ult. & 3<sup>rd</sup> inst. but we fully expect that the prices given are only for future orders and that this lot will be billed anyhow not higher than the highest price given to Mr. Batchelor when in America viz.

\$ 5	for	100.
\$ 40	"	4000
\$ 300	"	12,000

The above mentioned orders were given under the impression that these prices were correct.

Your prices for carbons unsparked is exceedingly high; it does not cost us here more than a quarter of said price to make them.

Yours faithfully,  
SOCIÉTÉ Industrielle et Commerciale EDISON  
*R. V. Pigeon*

1883-09-30

SOCIÉTÉ ÉLECTRIQUE EDISON

SOCIÉTÉ ANONYME

Au Capital de 1 million de francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ  
Paris 1881

GRAND DIPLOME D'HONNEUR

ADRESSE TÉLÉGRAPHIQUE  
EDISON, PARIS

RECEIVED  
SEP 18 1883  
AMERICAN

33, Avenue de l'Opéra

Paris, le 30<sup>e</sup> 1883.

FILE No. ....

*Mr. Thos. A. Edison  
New York.*

Dear Sir,

We beg to acknowledge receipt of your favor of Aug. 17<sup>th</sup> enclosing a copy of a letter addressed on July 26<sup>th</sup> by Mr. Paul Schmitt fils of St. Die to Mr. W. H. A. Anderson of the Board of Fire Underwriters of New York, concerning the buying of Edison lamps to be imported in France. Mr. P. Schmitt is one of our customers and we should take measures, so that he cannot use any other lamps but those sold by us. We thank you very sincerely for the information you have given us and we shall be very thankful if you will always inform us of any attempt made to import American lamps in Europe that may come to your notice.

We are, Dear Sir,

*Yours very truly,*

SOCIÉTÉ ÉLECTRIQUE EDISON

*J. D. Bail*  
ADMINISTRATEUR DÉLÉGUÉ

1883-08-30

Rebuto, E.H.G.  
Bergman & Co.

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'honneur 529  
PARIS 1881

Ivry-sur-Seine, le  
5, RUE DU PARC  
Aug 30 1883.

M<sup>r</sup> A Edison &

New York.

Theatre Regulators

My dear Edison,

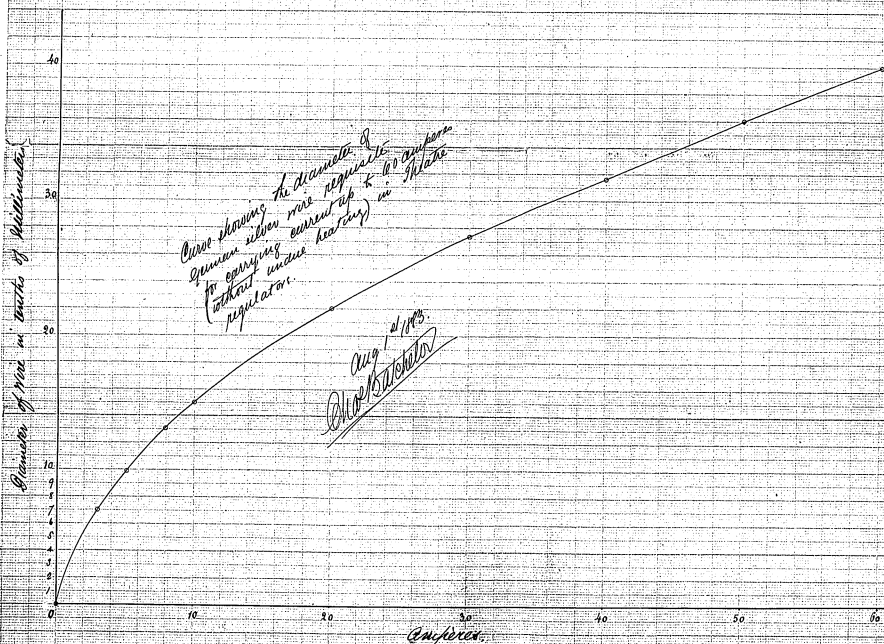
I have made one or two good theatre regulators of spirals of German silver wire, and if Bergman & Co like to use them I enclose a table for calculating the resistances; and a curve, which if followed, you will see no jumps in the light from 16 candles to a black.

The table shows 40 buttons on the switch, the amount of resistance to introduce at each time, the total resistance etc. etc. - It is made for one Edison lamp of 1/8 ampere of 140 ohms and any number of lamps in a lot can have a resistance calculated from this as follows:-

In order to know the diameter of your wire you must know how many amperes you want to carry on each button of the resistance box, so you multiply the second column by the number of lamps it is for the resistance box is for; and the curve will give you the diameter of wire in tenths of millimeter - the resistance of this wire is found by dividing the sixth column by the number of lamps in your regulator

Yours  
Chas Bletcher

2  
enclosure



1	2	3	4	5	6
Partido or Candidate Basis	Duplicate	Total Receipts in Cash	Receipts in Stamp	Receipts in Material	Receipts in Party Basis
1	0.7434	761.05	760	0	7.05
2	0.7595	746.45	745.5	3.5	7.55
3	0.7556	749.94	747.4	4.14	7.57
4	0.7160	757.63	757.0	6.48	7.59
5	0.6974	757.50	749.0	5.50	8.07
6	0.6765	767.58	760.5	70.75	8.97
7	0.6652	767.56	762.6	11.38	8.99
8	0.6645	770.37	774.4	75.98	9.70
9	0.6880	775.36	786.2	76.96	9.95
10	0.6704	770.34	775.0	22.31	9.97
11	0.5938	775.36	759.8	22.31	9.55
12	0.5752	791.84	767.6	29.64	9.88
13	0.5175	797.87	763.4	33.57	4.33
14	0.5400	825.56	767.6	35.50	4.63
15	0.5224	840.57	767.6	43.57	5.07
16	0.5665	827.51	767.6	49.77	5.34
17	0.4682	825.56	767.6	53.56	6.07
18	0.4682	824.24	772.4	67.14	6.65
19	0.4750	845.56	774.2	69.56	7.32
20	0.4844	851.82	776.0	77.82	8.06
21	0.4468	853.91	772.4	86.11	8.89
22	0.4468	853.91	772.4	86.11	8.89
23	0.3892	875.55	779.6	97.97	9.54
24	0.3776	888.85	781.4	74.67	10.91
25	0.3870	882.29	781.4	74.67	12.15
26	0.3462	877.55	787.0	132.57	13.76
27	0.3245	854.57	787.0	147.57	15.24
28	0.3112	873.47	788.8	164.87	17.12
29	0.3112	873.47	788.8	164.87	17.12
30	0.3160	898.57	794.2	184.35	19.39
31	0.3172	887.69	794.2	206.35	22.09
32	0.2644	876.31	797.6	261.01	24.22
33	0.2822	872.85	797.6	297.83	26.82
34	0.2826	875.82	799.4	335.02	29.39
35	0.2762	885.71	801.2	385.91	32.69
36	0.3704	869.54	801.0	442.54	35.63
37	0.3228	779.89	804.8	575.09	38.57
38	0.1812	773.07	806.6	607.01	41.32
39	0.1756	795.37	804.4	726.97	44.96
40	0.740	7100	811	870.00	763.02

As required by the amended Sec. 5 for 9.  
The following marks a 5 for 9.

285

Vienne 3 Sept 1878

1878-09-03  
1878

CHAR. BENTON

OK

Monsieur le Comptoir Central Edison  
Paris.

Gentlemen,

We duly received your favor of the 1st inst and confirming our other letter in French enclosed herewith we beg to say that when convenient we generally prefer to correspond in English being better familiar with that language.

We are of opinion that from a legal point of view there is nothing to prevent your your publishing here the warning you have published in France.

Should your desire to take steps against infringements in America the proceedings would have to be taken with the aid of a lawyer here.

The New United Electric Light Company Limited of London has applied to the Ministry of Commerce here to have the Edison patents for incandescent lamps

27 May 1878  
28 July 1878  
13 August 1878  
27 May 1878  
28 July 1878  
13 August 1878  
I have said in document of your name or that identity with  
the other English patents granted to you 4 May 1874 to G. P. Fox  
17th May - 20 June 1877 - 12 Oct 1878 - 28 August 1878 and an  
I have to say 1878, and answers will have to be filed shortly  
How is this for high?  
C.M.



1883-09-04

COMITATO  
PER LE APPLICAZIONI DELL'ELETTRICITÀ  
« SISTEMA EDISON » IN ITALIA

Via Manzoni, 12 A

Indirizzo per Telegrammi  
EDISON-MILANO

MILANO, 4<sup>th</sup> Sept 1883

Th. A. Edison Esq.  
New York

Dear Sir

We beg to confirm our telegram of to-day:  
"ship breaker uprights for C dynamo, cable  
when can deliver others C dynamo"  
The breaker and uprights are destined for the  
C dynamo supplied to us by the Compagnie  
Continentale from their depot of Antwerp.  
This dynamo must be erected within the  
month of October, and we hope you  
will be able to ship breaker and uprights  
soon enough to be used and set up at  
the same date. Shipping them on board  
a steamer sailing directly from New York  
to Genoa will save at least 15 days.  
It is extremely probable that we may find  
convenient to add a sixth dynamo to  
our Central Station. Therefore we ask you  
by cable when you will be able to ship  
a C dynamo (with corresponding breaker  
and uprights). If you can deliver the

machine in good time and the price will be found convenient, we will most probably cable you the order within a week or two. We hope you will ship, according to your cable, the 400 ampere machine on the 7<sup>th</sup> inst. We shall be obliged to supply us by return of post all the data concerning this machine, viz. speed, resistance, etc. After having experimented it, and found good, it is probable that we may order another. You will please at the same time to give us some information about the 90 Ampere machine, because we want to order some. And in general any information you may give us about all the new types of machines and other apparatus made or used after our Mr Colombo's visit to N York, will be of great use for us. Mr Batchelor informed us about a new meter and also about a recording Amperimeter or indicator of the number of lamps worked by the station, but we know nothing about their results, practical applicability, price etc and should be glad to have more detailed information.

In our station we have adopted as standard lamp the A lamp of 102 Volts (for no other reason that the majority of our stock was of such lamps). Please to ship directly to Genoa 2000 (two thousand) A lamps of 102 Volts, carefully packed, in order to avoid the extraordinary breakage of the 100 Candles lamps, of which 13 were broken in five dozens.

Our station is working well, although progressing slowly, because of the time required by the wiring of the installation. We have obtained the order to light the Theatre della Scala (2450 lamps A and B) and with this and other installations the affair seems to take a satisfactory turn.

Awaiting your earliest reply, we remain, dear Sir

COMITATO PER LE APPLICAZIONI DELL'ELETTRICITA'  
SISTEMA EDISON. IN ITALIA

G. Colombo

KESSLER & CO  
P.O. BOX 1105.

1873-09 .DP

68 Wall Street  
New York, Sept. 8<sup>th</sup> 1883

T. A. Edison Esq.  
65 Fifth Ave.

Dear Sir, The Bank Centrale  
du Commerce, Paris, has tele-  
graphed us to pay you \$2,000.  
for account "Edison". Enclosed  
we hand you our checks for  
that amount, please sign  
& return enclosed receipts  
& oblige.

Yours very truly,  
Kessler & Co

34

Sept 8<sup>th</sup> 83

Kessler & Co.

enclose check for  
\$2,000



1883-09-10

C<sup>o</sup> CONTINENTALE EDISON

SOCIÉTÉ ANONYME

Au Capital de 1 million de francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Paris 1881

GRAND DIPLOME D'HONNEUR

ADRESSE TÉLÉGRAPHIQUE  
EDISON. PARIS

33, Avenue de l'Opéra

Paris, le 10<sup>th</sup> Septembre 1883Dyke please  
I wish this outThom. Alva Edison Esq<sup>r</sup>.  
65 Fifth Avenue  
New York. U. S.

Dear Sir,

We wrote last on the 29<sup>th</sup> Ult<sup>o</sup>.Russia Set 2. (corresponds to Continental Set 2.)We have patents in Russia for our  
foundation patents sets 1, 3, 4, & 5.All Continental sets after Continental  
set 6 (refused by the Russian office as not  
being subject for a patent) have not been  
patented there as patents in that country  
are only granted for a very short time  
and are very expensive.Continental set 2 was filed on the  
23<sup>rd</sup> June 1883 is still pending before the  
Russian patent office.We are now informed that the  
Russian Government will not grant  
this set as one patent, but wishes it  
divided in 3 patents.

Enclosed copy of the reasons of the

1883-09-10

C<sup>e</sup> CONTINENTALE EDISON

SOCIÉTÉ ANONYME

Au Capital de 1 million de francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Paris 1881

GRAND DIPLOME D'HONNEUR

ADRESSE TÉLÉGRAPHIQUE  
EDISON, PARIS

Paris, le 10 Sept 1883

33, Avenue de l'Opéra

(2) (Suite)

Russian office for refusing a single patent  
for that set.

We have studied the matter & also  
referred to Mr. Datchelov to know which part  
of this set according to his opinion we  
should patent in Russia, but Mr. Datchelov  
wishes us first to refer to you, to have your  
advice on the subject, which is of a certain  
importance as this is one of the first  
sets deposited in Russia.

Out of the 6 parts of the set, we would  
select the most important to be patented  
in Russia as set N<sup>o</sup> 2. I would ask you  
if you will give us your advice which  
of these parts you consider most important  
& give us a reply kindly without delay  
as we must give our patent agent definite  
instructions towards the 10<sup>th</sup> of next month  
at least delay.

Thanking you before hand for  
your trouble

Yours sincerely,

ADMINISTRATEUR CONTINENTALE EDISON  
L. J. B. L.

Administr. Délégué

1883-09-12

1883-09-11

SOCIÉTÉ INDUS<sup>RIELLE</sup> & COMM<sup>ERCIALE</sup> EDISON

Société Anonyme, Capital: 1.500.000 Francs.

à Ivry s/Seine, 5, Rue du Parc.

Grand Diplôme  
D'Inventeur 544  
Paris 1881

Jozij, le Sept 11 1883

Mrs. A. Edison, &

New York.

My dear Edison

Your cables for \$500 were responded to Saturday. Please send forward the bills for same immediately. The factory says that all they have ordered & the balance of your credit here does not amount to that amount.

I have prevailed on them to send it. Please in future don't ask for more than is due as I have trouble getting it promptly, as I have to you know put the factory into the hands of another director.

Yours truly

Wm. S. Edison

Mr. Edison:

Here is an application from Portugal: this country does not belong to the European Company, according to the contract. Will you please take charge of this matter.

W. H. Meadowcroft  
Secy

Sept 12/83



1883.09.12

Hotel de Ville sur, Brussels,

I will wait for the document to be  
mentioned before answering my

My dear Mr Edison,

Thus I had to go to Eaton by last Saturday's  
mail, a long letter resuming the situation of affairs  
on the Continent and by this mail send a complete  
printed memorandum of the plan of formation of  
the International Company, and several other papers  
that will be of interest to you.

You will notice, under the head of "Rights  
for patents" on the first page, that I have struck  
out the clause, "taken or to take during five  
years, and the preference after that period for all  
improvements."

The gentleman with whom I discussed this  
point latterly in London wanted an absolute  
engagement of all your future inventions relating  
to Electric Light and motive power; but I replied  
that we brought to the Company a complete and  
workable system; that you had disposed of already  
a considerable part of your interest in the profits  
of the business, and that we could not throw in  
your future work into the bargain. He recognized  
the force of the suggestion and I agreed to  
write you to get your ideas, assuring him

1883-09-12

I don't want to be  
tied up after the 5<sup>th</sup>  
-but will give them  
my consent  
that you should secure the  
Company on reasonable terms  
against the possibility of finding you in competition

would agree to such an arrangement as

I was told in London that the English  
Company gives you double the sum expended in  
experiments, and in the taking of patents, for all  
new patents that it desires to profit from, and I  
would like to know if an arrangement in  
similar terms would satisfy you for the Continent.

I do not like the form in which the  
matter stands in the contract with the  
"Compagnie Continentale" and I do not think it  
would be acceptable to the persons we are  
now treating with.

You may consider the constitution of  
the International Company with a capital of  
thirty millions of francs during the month of  
October as an assumed fact.

I have agreed here with the Belgian  
bankers for their participation to the full amount  
offered them of those millions of francs, and  
have received a letter this morning from  
Amsterdam expressing the approval of parties  
there of the proposed affair.

I go from here to Amsterdam tomorrow

1883-09-12

3

from there to Frankfurt and to Berlin and afterwards to Vienna. I think the affair will be wholly made up and ready for drawing on definite papers in the first days of October.

If you approve of the idea concerning new patents, of taking the same terms as those stipulated in your English Contract phrase call "Keraulite Paris", "accept English conditions", and in all events I beg that you will reply without delay, giving your opinion on the matter.

I am, Dear Sir

Very sincerely Yours

J. D. Bailey

Received  
Sept 11 1883  
J. D. Bailey

1883-09-13

D. No. 476

DEUTSCHE EDISON GESELLSCHAFT

FÜR ANGEWANDTE ELEKTROTECHNIK

INTERNATIONALE ELEKTRISCHE AUSSTELLUNG

GRÖSSES EHREN-DIPLOM

Paris 1881.

TELEGRAMM-ADRESSE:  
Edison Berlin.

Reichsbank Giro-Konto.

BERLIN W.,  
96 Leipziger Strasse.

13. September 1883.

*Inshall Can*

Herrn T. A. Edison.

New-York.

Wir sind im Besitz Ihrer geschätzten Depesche lautend:

four hundred dollars each ~~for~~ antwerp or hamburg

payment newyork against delivery documents

commence shipping thirty days-edison.

und nehmen von dem Inhalt bestens Vermerk.

Wir erlauben uns hierdurch nochmals auf diese Angelegenheit zurück zu kommen und Ihnen ergebenst zu bemerken, dass wir, wie Ihnen ja aus unseren Statuten bekannt ist, auf Grund der uns von Ihnen gesandten Modellmaschinen den Herren Siemens & Halske hier unsere Aufträge geben und denselben einen um 5% höheren Preis bezahlen müssen, als Sie uns berechnen.

Es liegt uns nun natürlich daran, neben unseren sehr guten Maschinen auch durch billige Preise concurrenzfähig

zu

1883-09-13

4316

DEUTSCHE EDISON GESELLSCHAFT  
FÜR ANGEWANDTE ELEKTRIZITÄT.

zu sein und der Beleuchtung hier in Deutschland einen schnell-  
len und grossen Eingang zu verschaffen.

Wir haben den Herren Siemens & Halske 40. Maschinen  
dieser beiden Typen in Auftrag gegeben und würden Sie erge-  
benst um die Freundlichkeit bitten, uns den äussersten Preis  
anzugeben, zu dem Sie evētl. in der Lage wären, die Maschinen  
bei einer grossen Ordre uns franco New-York zu liefern.

Wir dürfen Sie wohl ersuchen, die Preise recht scharf  
zu calculiren, da es in Deutschland wesentlich darauf anköm-  
mt, neben sehr guter Qualität der Maschine auch möglichst  
billige Preise zu stellen.

Wir dürfen Sie wohl bitten uns den Preis prompt zu te-  
legraphiren und begrüssen Sie

mit besonderer Hochachtung

ergebenst  
DEUTSCHE EDISON GESELLSCHAFT  
FÜR ANGEWANDTE ELEKTRIZITÄT.

*Handwritten signature*

Exptl.

1883-09-12

13. Sept. 1883.

T. A. Edison, Esq.

We have got your telegrams:  
 four hundred dollars each f.o.b. Antwerp  
 or Hamburg payment New York against  
 delivery documents, commence shipping  
 thirty days - Edison.  
 and we take notice of its contents.  
 Allow us to speak again of this affair  
 and to remind you - as you know from  
 our statutes - that we must give our  
 orders for machines - of which you  
 give us the patterns - to Mess. Siemens  
 & Halske and that we must pay them  
 are obliged to pay them a price that  
 is 3 per cent dearer than yours.  
 Of course we would like to compete as  
 well by very good machines as by cheap  
 prices, and to get electric lighting  
 used in Germany as much as soon  
 as possible.  
 We have ordered Mess. Siemens & Halske  
 40 machines of both these patterns  
 and beg you to be kind enough to  
 give us your lowest price that ~~we~~ you  
 would make us if we would give  
 you a large order to deliver in New York

1883-09-13

We beg you to make the calculation  
as low as possible because in Germany  
beside a good quality prices as low as  
possible are wanted

We beg you to telegraphs us the  
price immediately and remain  
yours very respectfully

Deutsche Edison-Gesellschaft

5

12

63

Blank No. 8.

1883-09-17

No. *712*

CABLE MESSAGE

*NY*

THE WESTERN UNION TELEGRAPH COMPANY.

All CABLE MESSAGES received for transmission must be written on the Message Blank provided by this Company for that purpose, under and subject to the conditions printed thereon, and on the back hereof, which conditions have been agreed to by the sender of the following message.

A. B. DILLWELL, Secretary.

NORVIN GREEN, President.

Check.

*Got*  
*J Jory*  
*Knosville Ky*  
*Thos A Edison*

Received at *852 BROADWAY*  
*Sept 17 1883*

*65 = 5 each*  
*Send drawings twenty five*  
*fifty dynamos*

*E*  
*Sullivan is I believe*  
*drawings 50*

RECEIVED  
SEP 17 1883  
ANSWERED

FILE No. *1883*





1883-09-19

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

5574

Société anonyme Capital 1,000,000 francs

EXPOSITION INTERNATIONALE D'ELECTRICITÉ

Grand Diplôme  
d'honneur  
PARIS 1881

M. A. Edison &

Ivry-sur-Seine, le  
5, Rue du Parc,  
Sept 19, 1883.

My dear Edison,

65 5th Avenue -  
New York

Cable on fire prices received & handed to 'Société Industrielle' - Also received cable as follows:- "wait immediately proxy vote special meeting light Co 24 Sept. or adjournment thereof" This I immediately attended to - I have represented your case strongly before them about the Italian engine and he seems impressed and asked me to leave your letter to me with him - As regard the feeder regulators it seems that Liek has told Columbus that they were worthless and could not be used, and that you used no such thing in New York. I think I have a chance of talking me of the Porter and shall decide in a day or so for the Rice exposition - Our people want to put up a C but I think better to put 2 '500 lights' and a Porter I think I shall persuade them -

150 light machine: I have just altered a L to give 150 lamps quite easy and it works very well indeed.



Armature: Wound with a B  
18 wires No 19 each coil  
Resistance 0.030 ohms

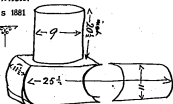
1883-09-19

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'honneur  
PARIS 1881



Ivry-sur-Seine, le  
5, RUE DU PARC.

Each core wound with  
103 lbs. No 16 wire  
paper on core but  
after the bottom layer  
no paper - the wire

passes through a hot solution of paraffin and  
resin on the lathe during winding

Test 1200 turns  
120 Amperes  
110 Volts

F dynamo. I have altered all the F dynamos  
we had commenced to give 1650 turns  
instead of 2200 which is a speed which  
gives no satisfaction in the hands of the  
public -

Armature: Instead of 2 wires 8 turns around  
I make 2 wire 12 turns round, this makes  
the armature more resistance but then we  
can easily sell than at that  
Yours truly

Edw. Batchelor

1883-09-21

*D. No.*

DEUTSCHE EDISON GESELLSCHAFT

FÜR ANGEWANDTE ELEKTROTECHNIK.

INTERNATIONALE ELEKTRISCHE AUSSTELLUNG  
GRÖSSES EHREN-DIPLOM  
Paris 1881.

TELEGRAMM-ADRESSE:  
Edison Berlin.

Reichsbank Giro-Konto.

BERLIN W  
96 Leipziger Strasse



Sept-21-83.

Pho. A. Edison. Esq.

Dear Sir

Your long and interesting letter of several weeks ago has been received and was translated into German for the perusal of the Managing Director others and in a few days I will endeavor to answer the same and give you further information as to the progress so far. I now write only a few hasty lines about a matter of considerable importance to us. Our Central Station at the Club Buildings I mentioned in my last as being under way are almost completed and having now received the

1883-09-21

*D. No.*

DEUTSCHE EDISON GESELLSCHAFT

FÜR ANGEWANDTE ELEKTROITÄT.

INTERNATIONALE ELEKTRISCHE AUSSTELLUNG  
GROSSES EHREN-DIPLOM  
Paris 1881.

TELEGRAM-ADDRESS:  
Edison Berlin.

Reichsbank Giro-Conto.

BERLIN W.,  
98 Leipziger Strasse.

3/ concession from the municipality for the erection of  
the boiler machines in our office building  
adjoining, we are arranging for same to  
have completed at the wiring. Now as in  
the clubs & other places mentioned, inclu-  
ding a large cafe we are to receive  
the light & pay same by meter we are  
fitting up now a place as a meter  
department, and we request you will  
send us at once a young man  
from your New York station with all  
the latest data of meter tests as made  
in New York, I understand the character  
of meter has been considerably changed  
the adjustment of plates, shunts, com-  
pensation, & density of solution & for  
these reasons as well as desiring to.

1883-09-21

S. No.

DEUTSCHE EDISON GESELLSCHAFT

FÜR ANGEWANDTE ELEKTROITÄT.

INTERNATIONALE ELEKTRISCHE AUSSTELLUNG  
GROSSES EHREN-DIPLOM  
Paris 1881.

TELEGRAMM-ADRESSE:  
Edison Berlin.

Reichsbank Giro-Konto.

BERLIN W.,  
96 Leipziger Strasse.

*Beysmann can make them  
as high as you want them  
to 500 heights*

3) *to 300* *heights*  
Judge by the experience you have had in  
your Central station work, and also on ac-  
count of our having here no one  
who can give the time ~~to~~ to it  
or who has had sufficient experience  
It is not necessary the man who comes  
should speak German as I have a  
fellow here who will render him  
with myself every assistance, Mr Raltman  
requests you will at once cable us  
upon receipt of this when The Khan  
leaves, it is very important we should  
have him at once, and also that  
we get the balance of our order  
for 1/2 Dry miles each from your  
Beysmann to the no, as far

1883-09-21

*J. No.*

DEUTSCHE EDISON GESELLSCHAFT  
FÜR ANGEWANDTE ELEKTRIZITÄT.

INTERNATIONALE ELEKTRISCHE AUSSTELLUNG  
GROSSES EHREN-DIPLOM  
Paris 1881.  
TELEGRAMM-ADRESSE:  
Edison Berlin.  
Reichsbank Giro-Conto.

BERLIN W.,  
96 Leipziger Strasse.

4) received is 1 for 6 lights 1 for 12 lights 2 for 25 lights  
1 for 50 lights 1 for 100 lights.  
And in addition we wish for 3 of  
as size for 150 to 200 lights

We shall keep the man sent for  
our meter Dept for our Central Station  
Project which is still progressing.

Hoping you will send man  
or at least a boy from your New  
York Dept; and also hoping to write  
again in few days about machines  
Co's work &c I am

Yours very respectfully

*W. D. Hammer*

P.S. How high do you make your meters for  
<sup>100 lights</sup>

01 85

Blank No. 2.

1883-09-21

No. 441

**CABLE MESSAGE.**

840

**THE WESTERN UNION TELEGRAPH COMPANY.**

ALL CABLE MESSAGES received for transmission must be written on the Message Blank provided by this Company for that purpose, under and subject to the conditions printed thereon, and on the back hereof, which conditions have been agreed to by the sender of the following message.

Check July

A. R. BREWER, Secretary.

NORVIN GREEN, President.

Encaide my  
Edison  
65-5 Ave

852 BROADWAY  
Received at Sept 21 1883

Write. Newdecooper  
Amsterdam price of Edmington  
Engines  
E.





1883-09-24

SOCIÉTÉ ÉLECTRIQUE EDISON  
SOCIÉTÉ ANONYME  
Au Capital de 1 million de francs.

Paris, le 24<sup>th</sup> Sept 1883

33, Avenue de l'Opéra

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ  
Paris 1881  
GRAND DIPLOME D'HONNEUR

ADRESSE TÉLÉGRAPHIQUE  
EDISON, PARIS

Thomas Alva Edison Esq  
New York.

Dear Sir,

Your favor of Sept 24<sup>th</sup> duly  
came to hand, enclosing an original  
letter from M<sup>r</sup> J. Schmitt, of Die,  
dated August 28<sup>th</sup>, for which we  
thank you very sincerely, we shall  
keep our attention on M<sup>r</sup> J. Schmitt to  
protect our interests.

Referring to your invoice of Aug<sup>st</sup> 25<sup>th</sup>  
for 3,800 lamps shipped to Antwerp,  
we beg to inform you that the  
carts only contained:

N <sup>o</sup> 2,943	150 lamps 10 candle power.
" 2,944	400 " " " "
" 2,945	400 " " " "
" 2,946	400 " " " "
2,948	<u>400</u> " " " "
making	2,950 " " " "

This has been verified twice by  
taking all the lamps out of the barrel.

Please then give us credit for  
50 lamps @ \$4.80 = \$240 which you

1883-09-24  
 33, Avenue de l'Opéra  
 Edison, Paris  
 33, Avenue de l'Opéra  
 Edison, Paris  
 33, Avenue de l'Opéra  
 Edison, Paris

will deduct from your next account.  
We remain, Dear Sir,  
Very truly yours,

SOCIÉTÉ ÉLECTRIQUE EDISON

*Samuel*  
ADMINISTRATEUR GÉNÉRAL

*[Faint, mostly illegible handwritten text, possibly a ledger or account book, with some numbers and lines visible.]*

Branch 80  
in charge of  
Tampa, Florida

Sept 24<sup>10</sup>

*[Handwritten notes or signatures at the bottom right corner.]*

1883-09-27

Milano  
Italia  
Sep 27<sup>th</sup> 1883.

Thomas A. Edison Esq.

Dear Sir;

One of the Machines  
we have just received here from  
Antwerp arrived here with parts of  
the valve motion of the attached  
A & S Engine broken. As they have  
no Indicators here adapted for  
indicating high speed Engines I  
would be obliged if you would  
send me a set of Tabor Indicators.  
They would be of great service to me  
in my work here and any I may  
have to do elsewhere. Hoping you  
will send them immediately

I remain

Yours very respectfully  
John H. Lubbock

Blank No. 8.

1883-09-27

No.

50

CABLE MESSAGE.

9:30

THE WESTERN UNION TELEGRAPH COMPANY.

ALL CABLE MESSAGES received for transmission must be written on the Message Blanks provided by this Company for that purpose, under and subject to the conditions printed thereon, and on the back hereof, which conditions have been agreed to by the sender of the following message.

A. R. BREWER, Secretary.

NORVIN GREEN, President.

Check.

Berlin  
Edison my  
65. 3 Ave

Received at

852 BROADWAY

sep 28 1883

Telegraph price 10000 stamp  
A stamp 1000 B lamps  
Different Volta Earliest delivery  
Edison

should quote the low price  
you gave by letter  
now quote letter say  
you should

1883-10-04

COMITATO  
PER LE APPLICAZIONI DELL'ELETTRICITÀ  
« SISTEMA EDISON » IN ITALIA

Via Manzoni, 12 A.

MILANO, 4<sup>th</sup> October 1883

Indirizzo per Telegrammi  
EDISON-MILANO

Th. A. Edison Esq.  
New York

Dear Sir

We are in possession of your esteemed favours of the  
21<sup>st</sup> ult. and confirm our cable of yesterday:  
"Your accounts fettered Paris"

We think better to find always funds to Paris for  
all payments to be made to you, and we have  
disposed accordingly in this instance also, for  
payment of material ordered lately to you. However  
if you prefer to have the payment directly, you  
can follow the system used for our first orders,  
and draw upon C. J. Hambro & Co. of  
London for the amount of goods shipped, against  
delivery of B. O. L., giving us notice of the shipment  
by cable.

✓

We expect therefore to be notified within a few days  
that you have shipped the 1<sup>st</sup> machine and  
also the 2000 A lamps (from 100 to 104 volts)  
which, according to your cable, we hoped to have  
sooner.

We should be obliged if you will ship at the



of the last shipment. We have found them so roughly-made, besides the general defects of the new-model of Key-pockets, that we will not take them without a reduction in the price of not less than 50%.

We have taken note of the details you have kindly given us about the new machines you are preparing and hope to be able to give you some orders, especially if you will inform us about their price, size, speed etc. — We hope also to order you within a few months at least two "C" dynamos, as soon as the lighting of the Scala will prove to be successful as we trust it will.

For your guidance, whenever we order anything directly to you, we inform regularly the Compagnie Continentale.

We will refine by giving you some more details of our Central Station in addition to those sent you in our last letter. — We light now regularly the Teatro Manzoni, which is considered by everybody to be a very fine specimen of electric lighting in a theatre. We have at present 1100 A lamps on, working from  $5\frac{1}{2}$  to  $1\frac{1}{2}$ .



81  
Oct 4/13

the night, with two dynamos, one Armstrong  
and one Porter. Every thing goes right under  
the direction of Mr. Lieb, who is very active  
and intelligent, but the engines have given  
and give still much trouble. We hope however  
that little by little this difficulty will be overcome.  
We have ordered the Ampere meter you have  
given the detail of to Mr. Lieb. We have  
also experimented for a long time upon the  
meters, and have now them on for the  
first time in 8 or 10 installations.  
We remain dear Sir

COMITATO PER LE APPLICAZIONI DELL'ELETTRICITA'  
SISTEMA EDISON IN ITALIA.

E

G. Colombo

1883-10-04

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ELECTRICITÉ

Grand Diplôme  
d'honneur  
PARIS 1881

Ivry-sur-Seine, le  
5. RUE DU PARC.

Oct 4 1883

My dear Edison,

Yours of 21<sup>st</sup> to hand

You say 300 light machine 250 ampere 112 Volts  
1100 Rev. for \$1000 - I have not said anything ~~to~~  
to them here about this machine because I make  
here a machine 950 Rev. 300 lights 110 Volts for  
\$400. I will get dimensions of it here & send you.  
How is it cost so much there?

Get your cable on Arrington will attend to it  
immediately

Yours  
"Batch"

1883-10-10

Mr. Edison

I have received from Batchelor his catalogue of goods which he sells to the Societe Electricque and others. Also the prices. I have asked Mr. Hutchinson to prepare a comparative list of these prices with ours here. It will be an interesting document and I will ask Hutchinson to show it to you.

S. B. Eaton

Oct. 10th. 1883.

per Mc.Q.



1883-10-10

Oct 10<sup>th</sup> 1883

My dear Edison,

Your of 26 Sept. to hand - 100 light drawings to hand but the most important part of the information is not there that is the size and amount of wire on armature and magnets - As you say you change from the 2 coils to 1 I think I shall not change the 120 light - I see the English Company is asking about prices here for lamps and our company I find we have already sent some there - With the price you have given for 16 and 8 I think you will hold that market very strong - They never asked me to furnish them and I only accidentally find out they had been sent.

I have made a lot of experiments and have come to the conclusion that the long magnet is not worth a damn!!!. Excuse me for the strong language!

As I am making an estimate (which is almost finished) for a station here of 24000 lights (guaranteed 5 hours per day) I should like to know what is your actual experience with 3 wire system? Can you in practice work more than 2 amperes per millimetre on the underground conductors?

If you give 10% loss on conductors with 3 wire system, the short feeder would require to carry ~~several~~ more amperes per section than the long one therefore would it not be better in your mind to have the station divided in two

one half feeding into the other half with less loss

You see if you have 1000 lamps at 100 meters on one feeder & you give 10% loss you have a current of about 4 amperes per square m.m. but if you have 1000 lamps at 200 meters then in that conductor you have a current of 200 amperes per sq. m.m. As it seems to me you have got to put the copper in the short conductor to carry this current & then lose it again in the feeder regulation - But it seems to me better to have one half of each a big station working at 110 volts & 1/2 at 220 volts. I don't mean outside but inside the station. Another way would be to keep the machines entirely separate and pump into any feeder with a drop of two or three machines until you reach a better right

Give me a few points please

"Batch"

@

Send this to Sprague to answer

Write Batch that if he will send a Canvas showing maximum lights we will agree to send him a determination accurately in 3 days after its arrival

Send this to Sprague to answer

1883-10-12.

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital : 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'honneur  
PARIS 1889

Ivry-sur-Seine, le 12<sup>th</sup> Octobre 1883  
5, RUE DU PARC

C. A. Edison Esq.  
New York.

Dear Sir

We understand we have got to pay to the  
Armington & Pim Co. a 10% royalty on the 2 engines we  
have built here, and that this royalty is calculated  
on the factory's selling price which we do not know.

We therefore should be obliged by your  
letting us know on what sum the 10% in question  
is payable.

Awaiting your kind reply we remain  
Yours faithfully

SOCIÉTÉ Industrielle et Commerciale EDISON

Le Directeur

*Ed. Picard*

*If you can't get the  
factory sells same price  
as Art. 5. 10 pct of the  
you to Art. 5.*

1883-10-13

INSTALLATIONS D'ÉCLAIRAGE ÉLECTRIQUE

Système Edison

SEUL DIPLOME D'HONNEUR

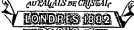
pour l'éclairage électrique par l'incandescence  
EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ



SEULE MÉDAILLE D'OR

pour Système complet d'éclairage électrique

EXPOSITION  
INTERNATIONALE D'ÉLECTRICITÉ



INSTALLATIONS

de ou de  
Transmissions de Force motrice  
stationnaire par l'électricité.

LAMPES EDISON

MACHINES ÉLECTRO DYNAMIQUES  
de toutes dimensions.

ACCESSOIRES

de tous genres et installations  
D'ÉCLAIRAGE ÉLECTRIQUE

Société d'Appareillage Électrique

8 Boulevard du Théâtre · 8

GENÈVE

Genève, le 13 Octobre 1883

Monsieur Thomas A. Edison



Cher Monsieur

Nous avons bien reçu  
en son temps vos aimables lettres des  
10, 12 & 28 Septembre ainsi que les  
feuilles qui elles nous annonçaient notamment  
un envoi contenant album, clichés, catalogues  
brochures etc. Nous vous en remercions  
vivement & venons reprendre la ou il y a  
lieu, les sujets traités dans ces lettres.

Il nous sommes extrêmement  
satisfaits d'apprendre que vous êtes en  
train de construire des machines dynamo  
de nouveaux types qui sont plus économiques  
relativement à leur force que les types  
actuels jusqu'à ce que nous espérons que  
cette sorte de prix contribuera à en répandre  
l'emploi plus rapidement.

Adresser Télégrammes ÉLECTRICITÉ, Genève.

1883-10-13

2

Nous avons reçu de M. Court. les plans de la machine T 100 lampes & nous en remercions mais attendons ceux de la machine de 400 lampes que nous annonçons notre lettre du 28 Septembre.

Nous vous prions de nous envoyer également les plans des machines de 25 50, 200 & 300 lampes au fur & à mesure que ces types seront prêts. Il nous faudrait aussi pour chaque machine connaître :

I. La vitesse qui correspond à la tension normale de 110 Volts;

II. En attendant que vous puissiez nous en envoyer les plans, nous s'indiquent :

- a) la superficie de terrain occupée par la machine
- b) son poids
- c) son prix
- d) le temps exigé par nous pour la construction d'un de ces types dans le cas ou nous serions appelés à vous fournir un type

Et au sujet des machines l'album intitulé "The Edison Light etc" par the Edison company for isolated Lighting, dont nous vous avons adressé quelques exemplaires contient de nombreux détails sur les machines à vapeur, sur les échelles, ports lampes de main etc contient peu sur les machines dynamo. N'y aurait-il pas un album



INSTALLATIONS D'ÉCLAIRAGE ÉLECTRIQUE  
Système Edison

SEUL DIPLOME D'HONNEUR  
pour l'éclairage électrique par incandescence  
EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

PARIS 1889

SEULE MÉDAILLE D'OR  
pour Système complet d'éclairage électrique  
EXPOSITION  
INTERNATIONALE D'ÉLECTRICITÉ

au PALAIS DE CRISTAL  
HONNÉES 1889

INSTALLATIONS  
de transmissions de force motrice  
stationnaire par l'électricité.

LAMPES EDISON

MACHINES ÉLECTRO DYNAMIQUES  
de toutes dimensions.

ACCESSOIRES  
de tous genres et installations  
D'ÉCLAIRAGE ÉLECTRIQUE

Adresse Télégraphique ÉLECTRICITÉ, Genève.

1883-10-13  
Société d'Appareillage Électrique

8 Boulevard du Théâtre. 8

GENÈVE

Genève, le 18

album plus spécialement  
consacré à ces machines et donnant  
plus d'indications sur leur point  
leur utilité, etc.

J'ai tout pris en note et  
escomptes faits par M. Bergmann  
M.

La Edison Tube Company  
a-t-elle un catalogue? Si oui  
Prérez de nous le faire adresser en  
nous indiquant quelles conditions cette  
Société nous fera.

Elle pourrait peut être nous  
envoyer quelques échantillons.

J'ai tout pris en note des prix  
indiqués pour les lampes mais nous avons  
une observation à vous présenter.

La facture de lampes du  
1<sup>er</sup> Mars nous comptait les lampes de 8 N de  
16 bougies à \$ 0.50 et celles de 32 bougies à  
\$ 0.60. La facture du 9 Mars nous calculait  
les lampes de 8 N de 16 bougies à raison de  
\$ 0.40. au reçu de cette dernière facture et

1883-10-13 #

facture & dans le but de vulgariser toujours plus votre lampe en faisant également concurrence aux lampes System vendues en double bon marché nous avons baissé le prix de vente de nos lampes & cela était d'autant plus nécessaire que les constructeurs de dynamos de différents systèmes obtenaient ces lampes à Londres à 3 sh. 6. la pièce. Nous supposons qu'en lisant votre lettre du 10 septembre (page 3) il s'est glissé une erreur de plume lorsque vous nous parlez le prix de \$0.50 pour les lampes de 8 & 16 bougies & \$0.75 pour celles de 32 bougies nous perdons qu'il faut lire \$0.40 pour 8 & 16 comme dans la facture du 9 Mars & nous croyons également que vous avez voulu nous faire le prix de \$0.50 & non \$0.75 pour celles de 32 bougies comme dans factures du 1<sup>er</sup> Mars & 9 Avril.

En résumé nous perdons que nous nous facturons les lampes aux prix suivants:

8 & 16 bougies	\$0.40
10 bougies	\$0.50
32 "	\$0.60
50 "	\$1.00
100 "	\$1.50

Toutefois si il vous plaît nous avisier de votre décision le plus tôt possible afin que nous puissions modifier notre prix correspondant en conséquence.

INSTALLATIONS D'ÉCLAIRAGE ÉLECTRIQUE  
Système Edison

SEUL DIPLOME D'HONNEUR  
pour l'éclairage électrique par incandescence  
EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ



SEULE MÉDAILLE D'OR  
pour Système complet d'éclairage électrique  
EXPOSITION  
INTERNATIONALE D'ÉLECTRICITÉ  
au PALAIS des CRISTALLS



INSTALLATIONS  
DES  
Transmissions de force motrice  
stationnaire par l'électricité.

LAMPES EDISON

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1883-10-13  
Société d'Appareillage Électrique

8 Boulevard du Théâtre · 8

GENÈVE

Genève, le

18

Nous regrettons de ne pas  
pouvoir pour le moment vous parler  
du coût de lampes par série de  
10000. Notre champ d'action  
n'est pas aussi vaste, tant d'un point  
que ceux des compagnies anglaise  
& Française.

À propos des lampes nous  
desirons savoir

a) quels sont les degrés de tension  
ou volts pour lesquels vous faites maintenant  
celles de chaque sorte; cette indication  
nous permettra dans nos commandes  
ultérieures de désigner la tension dont  
nous avons besoin

b) si possible envoyez nous des  
lampes ayant un collet de 4/8 de pouce, celles-ci  
sont préférés aux autres par certains de  
nos clients.

5. Antérieurement à la constitution  
de notre Société M<sup>r</sup> Frostmann vous avait  
demandé l'avis de vos plans pour Chemin  
de fer & tramways électriques, nous nous

1883-10-13 6

amities cell envoi dans votre lettre du Mercredi  
 matin ne l'avons pas encore reçu.

Nous vous serions reconnaissant de  
 ne pas oublier cet envoi, car on est  
 venu savoir nos intentions à propos  
 d'affaires de ce genre

Et nous prenons acte du fait qu'il  
 ne nous est pas possible de nous autoriser à faire  
 des affaires dans les pays ou aucun des Sociétés  
 immanant de nous n'est encore constituée.

A cause de cela nous ferions de  
 nous donner la liste des Sociétés constituées  
 dans vos pays ou en Europe & des pays qui  
 leur sont respectivement attribués afin que si  
 on nous propose quelque affaire hors de Suisse  
 (on nous a fait des ouvertures pour un  
 éclairage en Espagne) nous sachions si  
 c'est à l'une de ces Sociétés ou à vous même  
 que nous devrions nous adresser.

Je vous prie de vouloir bien nous dire comment se  
 comporte le compteur? Pourriez vous nous donner  
 des indications nécessaires pour en faire usage?

Nous étudierons actuellement une installation  
 par station centrale à Genève & serions bien  
 heureux de pouvoir vous servir de cet appareil.

Je vous prie de vouloir bien adresser une  
 copie des brevets que vous avez pris & fait  
 deux ans.

Voilà Monsieur, bien des demandes  
 nous comptons sur votre obligeance & etc.



TranslationGeneva Oct 15<sup>th</sup> 1885

Mr. Thomas A. Edison

65 Fifth Ave

New York

Dear Sir

We have duly received your favors of Sept 10<sup>th</sup> 12<sup>th</sup> & 28<sup>th</sup> - also the packages advised by them, notably that containing illustrations, stereotypes, catalogues, pamphlets etc. We thank you sincerely for them and resume, where necessary, the subjects treated in those letters.

We are glad to learn that you are about to build dynamos of a new and cheaper type than those hitherto constructed and we trust that their reduced cost will help to dispose of them more rapidly.

On the 11<sup>th</sup> inst. we received the plans (tracings) of dynamo T. of 100 lamps and also those of the 400 light dynamo, advised in your favor of Sept 28<sup>th</sup>. We think

We would be much pleased to also receive tracings of 25, 50, 200 and 300 light dynamos, provided these sizes are also available. It would be well for us to know too of each dynamo

- I. The rapidity (revolutions) required corresponding for a normal pressure (tension) of 110 volts
- II. Until we receive tracings from you, we should know
  - a) the ground space needed by each size
  - b) the weight of each size
  - c) price
  - d) time required by you to construct them

in case we should have occasion to give you an order

- 2) On the subject of dynamos: The illustrated catalogue "The Edison Light" published by the Edison Company for isolated lighting of which you have sent us several copies contains numerous details of steam engines, of sockets, fixtures, etc, but contains precious little of dynamos. Is there <sup>is</sup> a catalogue more specially devoted to these machines and giving better information as to their weight, revolutions, etc?
- 3) We have taken note of the discount made by Messrs Bergmann & Co
- 4) Has the Edison Tube Co a catalogue? If so, please send us one giving terms <sup>as in above</sup>. This company will allow us. Perhaps they would also send us some samples.
- 5) We note your ~~low~~ prices for lamps, but venture to make a remark: The invoice on lamps of March 1<sup>st</sup> quotes lamps of 8 and 16 candles at \$0.50 and lamps of 32 candles at \$0.60. The invoice of March 9<sup>th</sup> however charges us for lamps of 8 and 16 candles at the rate of \$0.40. After receiving this last invoice and with the object of rendering your lamp more popular by competing with the Swan lamps which are sold at a low price in Switzer land, we have reduced the price of lamps <sup>your</sup> ~~the more~~ <sup>which we ordered</sup> so, as the <sup>prices</sup> ~~builders~~ of the different systems of dynamos obtained these lamps in London at 3/6.
- We presume therefore that a clerical error has slipped in on page 5 of your letter of Sept 10<sup>th</sup> where you charge \$0.50 for lamps of 8 and 16 candles and \$0.75 for those of 32 candles. We think it should read \$0.40 for 8 and 16 candle lamps as is the case in invoice of March 9<sup>th</sup>.

1883-10-13 3

and we also believe that you intended to charge \$0.60 not \$0.75 for lamps of 32 candles as in the invoices of March 1<sup>st</sup> and August 9<sup>th</sup>.

In short we think you might invoice lamps at the following prices:

8 & 16 candles	\$0.40
10 do	0.50
32 do	0.60
50 do	1.00
100 do	1.50

Will you kindly advise us of your decision as soon as possible, so that we can modify our price-list accordingly.

We are sorry that for the present we will be unable to give you orders for lamps in quantities of 10,000. Our territory is not as extensive, by any means as that of the English and French companies.

Concerning lamps we desire to know:

a.) the (tension) pressure in volts to which you adapt the different lamps which you are manufacturing. This information would enable us to specify in future orders the (tension) or pressure required. If possible send us lamps with the (collar) base made of plaster-paris as they are preferred by our clients.



b.) We note that you cannot authorize us to do business in countries, where no company emanating from the parent company is as yet in existence. For this reason we request a list of all companies established under your auspices throughout Europe naming also the territory allotted to each of them.



1873-10-13 4.

so that if anybody should offer us business outside of Switzerland (we have recently had inquiries from Spain) we would know whether we should have to apply to a company or to yourself.

7) Will you please instruct us about the meter?

Can you give us the requisite information how to use it? We are at ~~the~~ present occupied in studying <sup>a Central Station</sup> ~~the~~ installation for Geneva and would be glad to make use of this apparatus.

8) Would you favor us with a copy of patents bearing on the subject of electric lighting, secured by you during the past 2 years.

Please excuse the multitude of our requests, ~~and~~ relying on your good will and the interest you take in our company, we trust, that you will advise us on the various points as soon as possible, as all of them are of the greatest importance to us.

We solicit the promptest possible reply as to dynamos, prices, etc. also in regard to the meter.

Accept, dear Sir, the assurance of our highest esteem

Société d'appareillage électrique

A. Schard

Director

1883-10-13

S. No. 5764

DEUTSCHE EDISON GESELLSCHAFT  
FÜR ANGEWANDTE ELEKTROTECHNIK.

INTERNATIONALE ELEKTRISCHE AUSSTELLUNG  
GROSSES EHREN-DIPLOM  
Paris 1881.

TELEGRAMM-ADRESSE:  
Edison Berlin.

Reichsbank Giro-Konto.

BERLIN W.,  
96 Leipziger Strasse.

13<sup>th</sup> October 1883

Thos. A. Edison

65 Fifth Avenue

New York

Dear Sir

We have your favour of the 28<sup>th</sup> Sept.  
and hope to receive the blue prints of the 100 light  
machine in the course of a day or two, and those  
of the "H" machine as provided, soon.

We further beg to confirm the following cable  
correspondence between us; from us:

Telegraph price 10000 A. lamps 10000 B lamps  
differential volt earliest delivery

Your reply:

Can deliver lamps immediately terms according  
my letter pref'd. to your Company.

From machine 4<sup>th</sup> Octole

Ship Hamburg 10000 B lamps 15000 A lamps

F. O.

From you: 7<sup>th</sup> Inst.

Arrange payment here shipment, lamps against document.

From us: 9<sup>th</sup> Inst.

Have arranged payment lamps against document.

From you: 9<sup>th</sup> Inst.

Through whom payment arranged?

From us: 11<sup>th</sup> Inst.

Spicer Company have instructions by letter

From you: 12<sup>th</sup> Inst.

Lamps shipped Suavia with mutual Freya  
freight

In consequence we have requested our Frankfurt  
bankers Messrs. E. S. Sulzbach to open the required  
credit with Messrs. Spicer & Co. by telegraph, and hope now  
that the shipments will arrive in quiet succession.

Regarding our business in general, we  
cannot help telling you, that yourself and our  
Paris friends have got us into a very sad dilemma

(2.)

5764 / Edison

1883-10-13

DEUTSCHE EDISON GESELLSCHAFT  
FÜR ANGEWANDTE ELEKTROITÄT.

out of which we at present see no way at all,  
as matters are going.

We had hoped to make the German business  
one which ought to have taken the lead on this  
continent. Everyone was well disposed towards  
the undertaking and the soil was carefully and  
with circumspection cultivated by us to  
receive the grain we meant to sow. As it  
is now, we have great difficulty in doing anything  
at all, and we are left far behind in the  
electric race which undoubtedly does take  
place in Europe!

In consequence of the information Mr Bailey  
had given us on the new H. Machine, and  
your assertion that it would run 500 lamps,  
we passed Messrs. Siemens & Halske an order  
for fifteen machines of this type. Before  
the trial of the machines took place, they  
gave us to understand that in their opinion  
it could not run more than 400 lamps. The

(3)

Edison

took place, and you have been informed that the armature ran through the first day and half. Siemens & Halske's prediction proved true, and it is not at all to be wondered that they look upon this failure with a considerable amount of satisfaction now! Upon your assurance that the H machine would work 500 lamps or sold this in several cases, and now have to make up the difference out of our pocket. We cannot help saying, but that it has been mislead for in your letter of the 28<sup>th</sup> September last you yourself call the H machine a 400 light one only.

The new 100 light machine also, which Siemens & Halske here to deliver at American prices are too dear and it cannot compete with their own types or Mr Schuckert's.

The price of the L machine is too dear and no one will have it, but the greatest difficulty of all is the circumstance that we have no machines of between 17 and 100 lamps.

(11)

1883-10-13

DEUTSCHE EDISON GESELLSCHAFT

FÜR ANGEWANDTE ELEKTRIZITÄT.

These are the types most in request, and as we cannot furnish them, all the orders go to the competition. Many weeks ago we were promised the drawings or models of the new 25 and 50 light machines, but as yet there is no trace of them.

All this is very discouraging to us, and the uncertainty existing as to your new types creates a want of confidence, which we are unable to counteract. At the same time that you advise us of having marked six blue points of the 100 light machine, you testify to them being obsolete by stating that you are thinking of making only one pair of coils. Can we, as sensible men, set to work now to build the T machine under these circumstances? We think not!

While we are expending enormous amounts in advertising the Edison light and your re-

expense in providing our mutual interest,  
we have to look on how our competitors  
get the orders, as we have no machines suitable  
to the demand.

We therefore earnestly request you to  
make an effort and see that this miserable  
state of affairs is brought to a speedy end.

Almond all what we have said above  
refers also to Paris, whence we get scarcely  
any help and that little so dilatorily and  
with so much difficulty, that we are sliding  
from one predicament into another constantly.

If all these evils we have complained  
of, are not speedily abolished, there is very  
little chance of our doing any business at  
all. We thus urgently request you to do all  
in your power to place us in a better position  
for doing business by sending us more information  
than has been the case so far.

We are,

Dear Sir,

Josua Bruck  
DEUTSCHE ELEKTROTECHNISCHE GESELLSCHAFT  
FÜR ANGEWANDTE ELEKTROTECHNIK

Wilhelm-Strasse 11  
Berlin

Copyright

1883-10-14

Major Eaton,

Professor Vogel, whose card I enclose, called here yesterday with a letter of introduction from the German Company to Mr. Edison. I informed him that Mr. Edison was out of town, as I expected that Mr. Edison would go to Brockton yesterday afternoon, and, inasmuch, as I am going out of town to-day myself, I suggested to Professor that he should call on you Monday morning and that you would give him every facility to look into the electric light here in New York. I think that Mr. Edison will be in the City to-morrow, and if so, he will be at Bergmann's, and you might tell Professor Vogel that when he goes to Bergmann's he can doubtless see Mr. Edison there. It is, however, uncertain, as Mr. Edison's stay depends mainly upon ~~some~~ whether some instruments are finished or not.

S. Insull,

October 14th. 1883.

per G.

D



1883-10-15

C<sup>e</sup> CONTINENTALE EDISON

SOCIÉTÉ ANONYME

Au Capital de 1 million de francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Paris 1881

GRAND DIPLOME D'HONNEUR

ADRESSE TÉLÉGRAPHIQUE  
EDISON, PARIS

Paris, le 15 Octobre 1883

33, Avenue de l'Opéra

If you will read the  
remarks of the Chairman  
of Swan Co at its last  
meeting you will see  
that their plans are  
part of a system of  
New York barabang, & coming  
to learn you will a  
consideration which should  
be made - the

Th. A. Edison Esq<sup>r</sup>

Dear Sir,

Contents of your favor of  
11 Sept (written by Major Syer) is of 23 Sept  
duly noted.

We just receive your favor of the 10<sup>th</sup> concerning  
and Austrian suit.

We were very surprised to find from your  
that Dr Neubach addressed himself to you directly  
as he had no instructions from us to do so  
may even add that he wrote to you without  
writing to us a word about it.

There is no need for you to send  
any power.

The President of this Company, who is  
in Vienna, we wrote to him to know  
the maximum time we can wait in  
Austria for our reply to Swan & Co.  
via you the answer.

Meanwhile, we beg to confirm our  
yesterday's cable.

Respectfully,  
New York

"Send quickest reply to Swan, has begun  
same suit Germany."

We can only advise you to send the defence  
you have kindly prepared as speedily as possible  
we will meanwhile do our utmost to  
obtain a delay.

Swan has made an application  
against our principal Lamp patent (213)  
in Germany & wants to begin there a suit  
similar as in Austria.

Yours very sincerely

COMPAGNE GENERALE D'ÉCLAIRAGE

Lamp  
Edison

12  
C/15/13  
Edison  
Lamp Co. Bank  
with amount only

1883-10-17

Memorandum

SOCIÉTÉ ÉLECTRIQUE EDISON

Société Anonyme Capital 1 million de francs

33, Avenue de l'Opéra

PARIS, le 17 Oct 1884

M. My dear Susan

I sent Edison a telegram for lamp  
business today about lowering price  
of lamps in England - Please  
give tell Upton to credit my a/c  
with \$9 as per enclosed slip as it  
was for Lamp Co mtg if on  
Yours Batebills

Can you not sell some European  
for me I am obliged to pass  
my stock here immediately  
or find that something else  
Yours  
B

What have you done about  
machine work B

57  
C. B. B.  
E. B. B.  
The Editor

Lamps

1883-10-17

SOCIÉTÉ ÉLECTRIQUE EDISON

SOCIÉTÉ ANONYME

Au Capital de 1 million de francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Paris 1881

GRAND DIPLOME D'HONNEUR

ADRESSE TÉLÉGRAPHIQUE  
EDISON, PARIS

Paris, le Oct. 17<sup>e</sup> 1883

33, Avenue de l'Opéra

Mr. Thos. A. Edison  
New York.

Dear Sir,

We beg to acknowledge receipt of your two favors of Oct. 4<sup>th</sup> and 5<sup>th</sup>, the contents of which has been settled in the meantime. We regret to inform you that we receive from all parts complaints on the quality of all the lamps you have sent us some two months back. It seems that these lamps are no more to be used in quite a short time. Under these circumstances we fear that we will be obliged to replace a great part of them, and, of course, we would thus be forced to ask you for damages up to the duration of 600 hours you guarantee. For the lamps made in France we guarantee 800 hours and up to date we have always gone beyond this duration.

We remain

Very truly yours.

SOCIÉTÉ ÉLECTRIQUE EDISON

*Edison*

ADMINISTRATEUR DÉLÉGUÉ

INSTALLATIONS D'ÉCLAIRAGE ÉLECTRIQUE

Système Edison

SEUL DIPLOME D'HONNEUR  
pour l'éclairage électrique par incandescence  
EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ



SEULE MÉDAILLE D'OR  
pour le système complet d'éclairage électrique  
EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ  
au PALAIS NATIONAL



INSTALLATIONS  
Transmissions de force motrice  
stationnaire par l'électricité.

LAMPES EDISON

MACHINES ÉLECTRO DYNAMIQUES  
de toutes dimensions.

ACCESSOIRES  
de tous genres et installations  
D'ÉCLAIRAGE ÉLECTRIQUE

Adresse Télégraphique: ÉLECTRICITÉ, GENÈVE.

1883-10-14  
*Société d'Appareillage Électrique*

8 Boulevard du Théâtre - 8

GENÈVE

Genève, le 14 Octobre 1883

Monsieur Thomas A. Edison

New York  
65 Fifth Avenue.

Sir

The object of the present letter is to submit to you a question which is rather important for us.

If we are not mistaken, you have agreed with M. Siemens & Halske to found a Company to work your system in the German Empire. But if M. Siemens & Halske have as agent M. Schenker & Zellweger manufacturers of electric apparatus at Ulm near Zurich in the north of Switzerland.

We fear that under pretext to represent M. Siemens & Halske, the said agent may be brought to represent the above mentioned Company and this to encroach on the right that we hold from you and therefore on the right we have delegated to our own agents in direct form of Switzerland.

We wish to direct your attention on the danger of conflict which may arise from this

1883-10-14.

Situation and we beg of you, in order to  
enable us to submit the enclosed, to communicate  
to us the form of your agreement with  
M. Siemens & Co.

We remain Dear Sir yours  
very truly,

SOCIÉTÉ  
D'APPAREILLAGE ÉLECTRIQUE  
GENÈVE

L'Administration Générale.

*A. Schaub*

*Handwritten notes:*  
P  
à l'Administration  
à l'Administration  
à l'Administration  
à l'Administration

1883-10-21

Hôtel Schweizerhof, Berlin, W.

21 October 1883.

My dear Mr. Edison:

You probably know that the German Co. has ordered the plant for a lamp factory. H. Pöppel has been talked of to organize it. I cannot represent to you too strongly the desirability of having a competent man, who knows all the latest joints come from your own factory. As its construction is fully decided, the only thing to be considered is how to secure the best results.

I would have tried, with the British, to induce the Germans to take their lamps from the States, if economy had been the only consideration. But there are two others that cannot be gotten over, that are against it. (1) National feeling, (2) the Patent Laws. You may think that national feeling does not weigh against economy, but that is a complete error. Any German interloper would have all the national sympathies, and would hold the German market against a foreign lamp that should be both cheaper and better.

In the next place the patent laws require that the manufacture shall be started and adequate to the supply of the market within three years from the date of the granting of the patent. The mere "working" of a patent which suffices in some countries does not serve here. Your patents would be beaten in



1883-10-21

Germany on this ground if the Siemens and Halske contract had not been made, and if Siemens would not testify that he had been manufacturing the Edison lamp since last March.

It is an absolute necessity then, that the German Co commence, and commence at once, to manufacture for themselves. Siemens is manufacturing, but only at the rate of about 100 a day, and provided the German Co. starts a good factory and makes a good, and cheap lamp, it is not likely that he will increase very largely his manufacture. But still there is no certainty in regard to this, and as he has a great deal of ambition, and can afford to do whatever he likes, the only way to make sure, is to make a better lamp, and make it cheaper than he can.

I am not an expert in lamps as you know, but I can testify from the reports that I pick up all about the continent, that the lamps turned out from the French factory do not, on the whole give satisfaction; some of them are excellent but the quality is very unequal. Hefple has now been absent from the States so long that he is entirely out of the current of improvements, and excepting the stray information that gets over to Paris, is working on old stock of ideas. In the next place he speaks no German, and it is an absurdity to send a man here to instruct Germans who cannot say a word to them except by an interpreter.

The German Co will pay up to 500 Dollars a month for a man that you say is competent to organize the factory, and who speaks German. They do not ask him to stay any longer than until he can turn out good lamps, and the entire plant will be ready to his

1883-10-21

hand, before he comes here, so that he will have nothing to do but to set it up, and get to making lamps.

I have thought that perhaps Epton might come over here for this work, and I think you will see reasons enough, why, if it be possible, you should let him come. The factory here will supply in all probability, Holland, a part of Switzerland, Austria, Russia, and whatever is done in the Spanish States. If Epton could come here the last of next month, he will find everything complete, and you can calculate better than I can, how much time it would take to set the thing in operation under these circumstances.

I send a letter in the same mail with this to Eaton giving a resumé of the situation of the lamp patents here in Germany. The blunders of patent agents have as nearly lost your entire situation in Europe as possible. I think the only remedy in Germany is to come to an understanding with Euxar. We are almost certain to be beaten unless the patent is made over, and this can only be done by the withdrawal of Junn's suit, or in a friendly understanding with him. I hope you will go over the letter sent to Eaton today.

I cannot understand how it is that no figures of the New York Central Station can be got hold of. It is now nine months since I called from Berlin for them and have been writing and calling ever since without any result. Every letter that comes from New York tells what a splendid business the Central Station is doing and what big dividends are going to be made and that is as far as we can get. I wrote in August a letter

telling the great damage that the withholding of these figures is doing us and that, even if the Central Station showed a loss, which is the universal belief here shared by your best friends, it is better to make a statement of it, than to keep it back.

We could have formed a general Company by this time if any figures had been available from anywhere giving the results of actual exploitation, but no Paris group could be formed in the absence both of definite figures and estimates, and so the matter hangs fire. When I left Paris the 4<sup>th</sup> Sept. it was expected that the estimates for the Central Station then would be made up by the 10<sup>th</sup> and that the Paris group could be made up during the month of September. I have been through and prepared for the formation of groups in all the places where we want them, but can bring nothing to a point because there are still no figures or even estimates for submission to the French engineers who are engaged in examining the business at Paris.

The German Co. however is now going in to make the Central Station at Paris if terms are agreed on, as is most likely. They have got a capital of Mk 5,000,000 with nothing for it to do.

A further serious difficulty is that the Edison Co. have no machines and the German Co. is prospecting to pay interest on its capital. They are also going in with us in Austria where I think a provisional contract with a million florins is quite certain to be formed in the early part of November.

The German group and the Stations are worth more than all the rest we have in Europe and I

1893-10-21

(3)

hope you will do your part towards encouraging the Germans, and lifting them out of the state of discouragement in which they are from the backwardness in getting machines, by helping to start a lamp factory in such a way that they will not flounder round with incompetent directions, such as I am sure they would have with Heffler, and be put in a situation that might result in throwing the business into the hands of Siemens.

Rathenau the director of the German Co. is with the possible exception of Prof Colombo, the best man we have in Europe. I think he is perhaps a more practical man than Colombo, but not so accomplished a technician.

I enclose you in the same mail with this little pamphlet of Dr Werner Siemens, and I wish you would send him one of your photographs with autograph and a nice letter expressing your satisfaction that your interests are in friendly relations.

Some of our people, the Germans among the rest criticized the policy in making up with Siemens elsewhere than in Germany, but when we went to Vienna a fortnight ago, Rathenau, the Bankers here and Porges all said to me, we must have a contract with Siemens or we cannot start any Company. I have never had to do with a person more straightforward and honorable than Dr Werner, whom I like much better than William.

Will you cable "Heraclite" Paris as soon as you get this, what you decide regarding the person for the lamp factory. I leave for Paris tonight and shall be there for some days.

I am dear Sir  
Very sincerely yours  
H. B. Bailey



1883-10-27

SOCIÉTÉ INDUS<sup>ell</sup> & COMM<sup>le</sup> EDISON

Société Anonyme, Capital: 1.500.000 Francs.

à Ivry s/Seine: 5, Rue du Parc.

Grand Diplôme  
d'honneur  
PARIS 1889

Jour, le

Oct 27<sup>1888</sup>

Edison,

Here's a pretty  
good thing for tacking up  
in wet places

Batchelm

Bergmann

Send Batchelm  
sample on  
new double  
wire E

1883-10-27

Société d'Appareillage Electrique

Genève, le 27 Octobre 1883

Monsieur Thomas A. Edison  
 65 Fifth Avenue  
 New York

Monsieur

Il se présente à faire en Suisse une transmission de force motrice d'une certaine importance & que nous désirerions extrêmement honorer d'avoir

Il s'agit d'une force disponible de 30 Chevaux qui est produite directement à l'automoteur de distance (1003,63 yards) de façon à recueillir au minimum 15 Chevaux sur l'axe de la machine secondaire.

Nous avons fait des offres dans les quelles les deux machines primaires & secondaires se chiffrent à \$3000 - (2475 francs) elles seraient de 300 Volts & combatteraient un maximum de quatre fois la résistance serait de 0,6<sup>ème</sup> pour les 2 kilomètres aller & retour.

Le propriétaire de la manufacture à Genève nous écrit qu'il a des offres de nombreux concurrens & que tout dépend

1883-10-27

Je vous prie d'insérer au note. Il résulte  
évidemment de sa correspondance qu'il attache  
plus d'importance à l'économie qu'à obtenir  
un rendement supérieur au minimum  
de 20% ci dessus indiqué.

Comme il résulte de nos lettres  
antérieures que vous modifiez au ce moment  
vos types de machines à lumière de manière  
à obtenir des machines sensiblement meilleur  
marché que les précédentes, nous nous sommes  
questionné en fait, peut être ce n'est pas pour  
les machines de tension élevée appropriées  
à la transmission de force.

Tout nous serions reconnaissant  
de nous dire ce qui en est, N de nous  
indiquer les machines que nous devons  
préparer pour arriver à installer la  
transmission de force en question, en aussi  
économiquement que possible, de façon  
à obtenir la préférence, ce dont nous serions  
particulièrement heureux.

Dans l'attente du plaisir de  
vous lire agréer, Monsieur, nos salutations  
respectueuses.

SOCIÉTÉ D'APPLICATIONS ÉLECTRIQUES  
A GENÈVE

L. Dominet Délégué

Hubert



1883-10-29

General, 27th October 1883.

Thomas A. Edison Esq.,

New York

Please name the machine  
 Rec. Rec. of wire return  
 Rec. of power etc.

A party in Antwerp desires to purchase machinery  
 for the transmission of power, & we wd. very much like to  
 obtain the contract.

He wishes to transmit 30 HP at a distance of 1 1/2  
 (1923.64<sup>ft</sup>) in such a manner as to have a minimum of  
 15 HP on the pulley of the motor.

We made bid to construct the Dynamo & Motor for  
 \$12,000. say 2475. with an electro-motive force of  
 300 volts, the resistance of the transmitting wire to be  
 0.60 <sup>ohms</sup> for the 2 Kilometers going & coming.

The proprietor of the manufactory in question informs  
 us that he has offers from many other parties & that they  
 all make lower bids than we do. We infer from the  
 tenor of his letter that he attaches more importance to  
 economy than a desire to obtain a force superior to  
~~other~~ his minimum of 500, as stated above.

As you inform us in your last letter, that you are  
 altering the models of your light machines, in order to be  
 able to turn them out cheaper, you are perhaps also  
 making alterations in your high potential machines, such  
 as are used for the transmission of power, & which will  
 permit you to make them <sup>also</sup> cheaper.

If such be the case, we would be pleased to  
 have you inform us what machinery we could use to



1883-10-29

INSTALLATIONS D'ÉCLAIRAGE ÉLECTRIQUE

Système Edison

SEUL DIPLOME D'HONNEUR

pour l'éclairage Électrique par Incandescence

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ



SEULE MÉDAILLE D'OR

pour Système complet d'Éclairage Électrique

EXPOSITION

INTERNATIONALE D'ÉLECTRICITÉ

à CHICAGO en 1893



INSTALLATIONS

Transmissions de force motrice  
stationnaire par l'électricité.

LAMPES EDISON

MACHINES ÉLECTRO DYNAMIQUES  
de toutes dimensions.

ACCESSOIRES

de tous genres et installations  
D'ÉCLAIRAGE ÉLECTRIQUE

Société d'Appareillage Électrique

8 Boulevard du Théâtre - 8

GENÈVE

Genève, le 29 Octobre 1883

Monsieur Thomas A. Edison  
New York  
65 Fifth Avenue

Monsieur

Monsieur, nous avons l'honneur de  
vous confirmer nos lettres des 13, 18, 26  
Courant

Espérant que vous ferez droit  
à notre demande en ce qui concerne le  
prix des lampes, nous vous prions de nous agréer  
pour le but de compléter nos appareils

1000	lampes B de 8 bougies	50	Volt
1000	" A 15 "	100	"
300	" A 16 "	102	"
20	" B 8 "	50	" Couleur d'essai
20	" A 16 "	100	" "
20	" A 50 "	100-102	" sans couleur
20	" A 100 "	100-102	" "
100	" A 100 "	100-102	" Couleur rouge
100	" B 11.5 "		" de somme des lampes

notre demande faisant si possible 100 Volt.

Adresse Télégraphique ÉLECTRICITÉ, Genève.

Nous vous demandons instamment de ne pas nous envoyer des lampes à diaphanes tendues que celles que nous vous indiquons attendu que nous sommes encore fournis de lampes dans les autres casités.

Envoyez nous des lampes ayant une souflet en plâtre, nos clients les préfèrent, & emballés les dans de petits sacs de soie.

Nous attirons votre attention sur le fait que nous avons reçu dans votre dernier envoi, une certaine, de lampes ayant la viole cassée; c'est fort ennuyeux, car même après les avoir réparées il ne nous est pas possible de les rendre aux clients.

Après la bonté de donner des instructions afin que cela ne se reproduise plus.

Nous avons reçu ces derniers temps des observations au sujet de la durée des lampes & plus spécialement des lampes de 8 bougies. Après un certain nombre de heures d'allumage 5-6 par exemple, le globe est si chaud qu'il n'est plus possible d'appuyer la main contre, en outre la moyenne des lampes cassées après une courte durée est assez élevée pour provoquer, de la part des clients, de nombreuses réclamations.

Un M<sup>r</sup> Gibson de Londres nous ayant parlé d'un type de lampe de 8 & 16 bougies dites nous à quel prix vous pourriez nous en acheter.

1883-10-29

INSTALLATIONS D'ÉCLAIRAGE ÉLECTRIQUE

Système Edison

SEUL DIPLOME D'HONNEUR

pour l'éclairage Électrique par Incandescence  
EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ



SEULE MÉDAILLE D'OR  
pour Système complet d'éclairage Électrique

EXPOSITION  
INTERNATIONALE D'ÉLECTRICITÉ



INSTALLATIONS  
Transmissions de force motrice  
stationnaire par l'électricité.

LAMPES EDISON

MACHINES ÉLECTRO DYNAMIQUES  
de toutes dimensions.

ACCESSOIRES  
de tous genres et installations  
D'ÉCLAIRAGE ÉLECTRIQUE

Société d'Appareillage Électrique

8 Boulevard du Théâtre 8

GENÈVE

Genève, le 21 Octobre 1883

Vous les nous envoyer  
directement la facture des lampes  
que nous vous commandons &  
en faire payer purement & simplement  
le montant chez M. M. P. Schin & C.  
à New York Centre quai n° 18.  
Bulletin d'embarquement.  
Avec nos vœux pour votre  
travail bien à l'honneur de votre patrie

L'Amiral Delleque  
H. Schin

Nous allons passer à Messieurs Bergmann  
N° un ordre à titre d'acquiescement.

Adresser Télégraphique: ELECTRICITÉ, Genève.

1883-10

Julian, 24th 1944

Shou-hsi, Edwin Coy.  
New York, N.Y.

Ship

We beg to confirm our receipt of the 13th 18th + 20th inst. -  
 Hoping that you will consider favorably our request in  
 reference to the price of lamps, we beg you to forward us, in  
 order to enlarge our stock -

1000	- B	lamps	8 cp.	50 volts
1000	- A		16 "	100 "
300	- A		16 "	102 "
20	- B		8 "	50 " (colored)
20	- A		16 "	100 " (-20)
20	- A		50 "	100-102
20	- A		100 "	100-102
4	- A		100 "	100-102 (red fill)
100	- B		4 e.c.	the total of lamps

to place in series, marking if possible 100 volts.

We request you particularly not to send us lamps of  
 different potentials than stated, as we are well supplied  
 with lamps of other ~~various~~ sizes.

Send us lamps with a plastic tube filling as our  
 friends prefer them; pack them in small barrels.

We call your attention to the fact that in your last  
 shipment there were about 100 lamps with the brass part  
 which screws a cover; this is very annoying, as even after  
 having glued it on, it is impossible for us to sell them.  
 Please give instructions so that this does not happen.

... a short duration, more particularly with the lamps. After being lighted 50 hours they become so warm that it is not possible to touch them, the percentage of broken ones is so great that our clients make numerous reclamations. -

The Edison Lamps mentioned to us a type of B lamps, of 12 + 16 cp.; - please give us pro. you can forward to us. -

Please send us direct invoice of the lamps we have ordered; Messrs. A. Seebin & Co, of your city will pay you amount of same against ~~the~~ shipping receipt. -

We remain, Very truly yours,

We will give Messrs. Rogues & Co -  
a third order.

Remains Co  
in re to lamps

1869  
- 11-8-69

1883-10-30

**SOCIÉTÉ INDU<sup>elle</sup> & COMM<sup>le</sup> EDISON**

Seciété Anonyme. Capital: 1.500.000 Francs.

à IVRY s/Seine. 5, Rue du Parc.

*Ed*  
Grand Diplôme  
d'honneur  
PARIS 1881

Ivry, le *Oct 30* 1883

*Mrs. Alan Lussul,*

I expect to be free  
here shortly & come back, in the in-  
possibility of doing anything with a  
little of my stock as I am dreadfully  
busted? *Yours*

*Batchelor*

We must send Bator  
\$1000 at least.

*ok*



1883-10-30

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ELECTRICITÉ

Grand Diplôme  
d'Honneur  
PARIS 1881

return the  
Ivry-sur-Seine, le  
5, RUE DU PARC.

The sooner you

Oct 31 1883

My dear Edison,

In the meeting of the Industrielle  
today we had a stormy time - the subject was  
your low price of the lamp & the order you got from  
Germany. Pope was simply crazy, and he  
said some very insulting things to me as the  
representative ~~element~~ of the American element there.  
He is going to write a letter to you or Batou to have  
you stop sending lamps except at the same price  
as we do in France, which of course would stop  
all American, as there are extra expenses incurred on  
Gruo. - This letter no doubt will be couched in pretty  
nice terms, but if you accede to it you will never  
sell another lamp in Europe. #

The next thing touched was the models you sent to  
Germany, of dynamo - It seems after ~~two~~ sending  
them to you wrote them a letter saying if you intended  
to change from 2 to one magnet then changing their  
models, this was the cause of a perfect torrent of  
wrath which I took awfully

Yours truly  
"Batch"

"I have asked them to put an engineer in the isolated  
Jensen in my place" If they don't arrange quick  
to make a long talk of Central Station here I shall  
be home soon "

C<sup>IE</sup> CONTINENTALE EDISON

SOCIÉTÉ ANONYME

Au Capital de 1 million de francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Paris 1881

GRAND DIPLOME D'HONNEUR

ADRESSE TÉLÉGRAPHIQUE

EDISON PARIS

Paris, le 2 Novembre 1880

33, Avenue de l'Opéra

*Have no man  
show threats*

*Take Answer to  
of impossible to see  
least our people  
many of them  
from Germany  
Let me see you  
answer to  
the letter*

Thomas Alva Edison Esq, Dyer  
New York.

We wrote to you on the 23<sup>rd</sup> of  
I wired to you yesterday as follows  
of vital importance send immediate first  
class man like Dennis who knows Porter  
and Armington machines, answer quick,  
also when will send answer Swan suits  
every days delay dangerous "Edison"

We are expecting your answer & hope your  
defence against Swan has already left New York  
as we require some very urgently.

The Austrians have granted us the necessary  
time of four weeks Vienna suit it would be  
sufficient if we had your defence here for  
the 25<sup>th</sup> of this month, but the German patent  
office to grant any longer delay of four  
weeks of a few weeks, it will only be  
the greatest difficulty

Referring to Mr Dyer's letter

of the 30<sup>th</sup> Aug<sup>ts</sup>, our board of directors has decided to drop set 16 as the manufacturing of sockets therein described is of no great importance, also France set 30.

On the other hand we would like to know why you do not seem to believe that set 7 can be held. Mr. Bachelard considers particularly Claim 1, "a rotating armature composed of thin metal plates etc etc" to be important. We will therefore keep that set for a while until we hear from you that it can't be held.

set 34. We will also still keep as that armature may be of importance.

set 50. we keep in France & Belgium as it will be necessary to work arc & incandescent lamps on the same system.

The way of transmitting electricity described in set 42 & 44 is likewise important if we have decided to keep these sets at least for another year.

We are

Dear Sir

Yours sincerely

COMPAGNIE CONTINENTALE EDISON

J. P. *Mail*  
Administr. Délégué



1883-11-04

SOCIÉTÉ INDUS<sup>TE</sup> & COMM<sup>TE</sup> EDISON

Société Anonyme, Capital: 1,500,000 Francs.

à Ivry s/Seine, 5, Rue du Parc.

Grand Diplôme  
d'Honneur  
PARIS 1881

Jozij, le

188

Mr pleasant mood with the  
Amington people for neglecting me then.  
Between you and I I don't think Amington  
know much about his engine  
If he other Porter had not been broken  
I should have taken that also for vice  
A short time ago I was highly im-  
-plimented in the Brussels theatre which  
as the Burgomaster said had not given  
a minute's trouble since it was put  
in.

I have occasionally to endure a  
fearful raking down in our board  
meetings from friend George one  
of these occurred last Wednesday  
the cause of the wrath being the  
fact that Edison was selling lamps  
& Germany for such low price and  
~~the other~~ Edison had sent only two  
models of 34 lamps to Germany.

1883-11-04

SOCIÉTÉ INDUS<sup>TE</sup> & COMM<sup>TE</sup> EDISON

Société Anonyme, Capital: 1,500,000 Francs.

à Ivry s/Seine, 5, Rue du Parc.

Grand Diplôme  
d'Honneur  
PARIS 1881

Jozij, le

188

He was so absurd that after  
the meeting I called him on one side &  
gave him my resignation but of course  
the rest of the board would not hear of  
it & have written me a very nice letter  
What are you doing at Goerck St  
& what models have you got out  
Ask Edison what he thinks of  
a Howard Camp machine with  
a wire armature.

Yours

Patent

Don't forget the man for Porter engine  
- See my sketch -

1883-11-05

I. No. 6526 DEUTSCHE EDISON GESELLSCHAFT

FÜR ANGEWANDTE ELEKTROTECHNIK

INTERNATIONALE ELEKTRISCHE AUSSTELLUNG  
GROSSES EHREN-DIPLOM  
Paris 1881.  
TELEGRAMM-ADRESSE:  
Edison Berlin.  
Re'chabank Giro-Oonto.

*will = remember distinctly  
this telegram. 5<sup>th</sup> November 1883  
BERLIN W.,  
94 Leipziger Strasse.  
It never got to Bergmann  
Thos. Alva Edison Esq*

*New York*

*Dear Sir*

*We duly received your sundry favours  
of the 12<sup>th</sup> Sept and 10<sup>th</sup> and 12<sup>th</sup> October last content  
of which we duly noted.*

*Our Bankers having paid you \$9000 on  
receiving telegraphic instructions, have now received  
further ones, to pay the remaining \$500, by letter  
as we did not think it worth while to call for so  
small an object.*

*On the 31<sup>st</sup> Oct. we telegraphed you as follows:  
"Have meters left, ~~copy~~ cable" to which we received  
your telegram: "No orders for meters".*

*We are much astonished at this as Mr  
Kammner assumes no having sent you some  
weeks ago an order for meters. While writing*

Your explanation of this circumstance, and being much in want of some meters, re-telegraphed you to-day as follows:

Send immediate ~~two~~ hundred light meters complete  
' for fifty two twenty ~~meters~~ complete  
' also ten shunts for hundred.

and try to confirm this order for

10 hundred light meters

2 fifty do do

2 twenty five do do

10 shunts for hundred light meters.

Trusting you will be able to attend to this small order at once, we remain

Dear Sir

Yours faithfully,

DEUTSCHE EDISON GESELLSCHAFT  
FÜR ANGEWANDTE ELEKTRICITÄT.

H. Hugo Fischer

DEUTSCHE EDISON GESELLSCHAFT FÜR ANGEWANDTE ELEKTRICITÄT

Copyright

374  
21 October 1893  
Herman Ho

1893

[FROM JOSHUA FRANKLIN BAILEY]

Form No. 4

1883-11-14

# CABLE MESSAGE. THE WESTERN UNION TELEGRAPH COMPANY.

All CABLE MESSAGE received for transmission must be written on the Message Blanks provided by this Company for that purpose, under and subject to the conditions printed thereon, and on the back hereof, which conditions have been agreed to by the sender of the following message.  
THOS. F. EGERTON, General Manager. NORVIN GREEN, President.

NUMBER	SENT BY	RECD BY	PRICE
M3	To	W. S. Paris	

Received at *34 Broadway New York* 1883.

*Edison ny 65-5 ave.*

*Answer about german  
Ramp factory*

*E. Meraclite*

15  
Exch: ~~4000.00~~  
*1000.00*

1883-11-16  
11 16

PARIS, November, sixteenth 1883

Three days after sight of this FIRST of Exchange (second unpaid)  
Pay to the order of *Gravel* ~~1000.00~~ *1000.00*

~~One thousand dollars~~

for Value received and charge to account of *Char Batechin*

TO *M. M. A. Edison*  
*New York*

*Char Batechin*

*Access of funds  
M. M. A. Edison  
New York*





S. No. 7422

DEUTSCHE EDISON GESELLSCHAFT

FÜR ANGEWANDTE ELEKTRIZITÄT.

1873-11-16

INTERNATIONALE ELEKTRISCHE AUSSTELLUNG  
GROSSES EHREN-DIPLOM  
Paris 1881.

TELEGRAPH-ADRESSE:  
Edison Berlin.

Reichsbank Giro-Konto.

BERLIN W., den 16<sup>ten</sup> Novbr  
96 Leipziger Strasse.

1883

Thomas Alva Edison Esq  
New York

Dear Sir

We had had this pleasure on the 5<sup>th</sup>  
Inst and in reply to our telegram of the 7<sup>th</sup> Inst.  
"Cable when Birmingham machine left"  
we received your reply:

"Engine shipped Mainz to-day,"  
at which we were much disappointed, since  
we had imagined it to be on the road for some  
time.

Owing to some very damaging reports in  
the newspapers, stating that you had lost  
a patent case on your incandescent lamp  
on the 8<sup>th</sup> October in favor of Sawyer & Man,  
about the existence of which we had been kept

2.

entire ignorance, we called you as follows  
"Great excitement because newspapers  
state that transcendent lamp lawsuit  
is decided against you in favour Sanyal  
Call whether true." -

Took in reply to a telegraphic inquiry also  
wired us: No particulars about lawsuit  
Washington calling Stoughton.

To our cablegram to you we received  
your reply on the 14<sup>th</sup> Inst.

"Not true case still before Secretary Interior  
only errors minor details process manufacturing  
of which under the existing aggravating circum-  
stances we made the best we could by interpreting  
it as much to our favour as possible in order  
to appease the mind of the public.

For our own information however we  
misinterpreted the cablegram to that effect, that  
what the papers had stated was substantially  
correct: you had lost the case and

appealed

1883-11-16

DEUTSCHE EDISON GESELLSCHAFT  
FÜR ANGEWANDTE ELEKTRICITÄT.

appealed to the Secretary of the Interior to  
have the decision of the lower Court reversed.

We should be pleased to hear from you  
that this own interpretation was wrong and  
that in reality you had not lost the case  
in the lower court.

But we must confess, and we have  
also written to our Paris friends, that we  
are very much disappointed at the manner  
in which you try to pass over so very imp-  
a question. If on your side matters of such  
vast importance to our success and yours  
are not considered worth mentioning even to  
your representatives on this side, we cannot  
help but seeing in such proceeding on your  
part a movement of great weakness of your  
cause which we have made our own.

The entire matter could not possibly  
have happened at a more inopportune a  
time

Some owing to the different laws and now  
pending and it will not surprise you to  
hear that the opposite party at once announced  
upon the newspaper article in question  
and made the best of it in their favour.

We are still without a reply to our letter  
of the 13<sup>th</sup> Octob. last in which we placed  
several matters of importance before you above  
all the question of dynamo machine.

Trusting that your reply to the above mentioned  
letter may be on the way by this time,

We remain

Yours faithfully

DEUTSCHE EDISON GESELLSCHAFT  
FÜR ANGEWANDTE ELEKTRICITÄT.

Matthieu Adolphe Fischer

42  
C. 1011

Feb 16/8

Deutsche Ed Ges

re the Sawyer

Munich

1883-11-19

SOCIÉTÉ ÉLECTRIQUE EDISON

SOCIÉTÉ ANONYME  
Au Capital de 1 million de francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ  
Paris 1881  
GRAND DIPLOME D'HONNEUR

ADRESSE TÉLÉGRAPHIQUE  
EDISON, PARIS

Paris, le \_\_\_\_\_ 188

33, Avenue de l'Opéra

19 Nov 1883.

My dear Susan

Yours of Nov 5<sup>th</sup> to hand.  
I did not know of the increase of the  
Edison Electric Light Co. stock. I suppose  
they will have called on me to pay up the  
increase ch? I have received no notification  
whatsoever on the subject. As Edison has  
told me to draw for \$1000 on him I think  
it best for me to hold out till you come over  
here. — Am glad to hear your journey  
extends to Paris, depend upon it you will  
not regret coming here, we will try and  
make it agreeable for you. — Glad  
to hear Machine Works is no worse —  
Lamp Factory & Bergman seem to be  
flourishing. — Many thanks for  
letter. Good bye till I see you  
at Paris.

Yours  
Patchett

1883. 11-22

COMITATO  
PER LE APPLICAZIONI DELL' ELETTRICITÀ  
« SISTEMA EDISON » IN ITALIA

Via Manzoni, 12 A

Indirizzo per Telegrammi  
EDISON - MILANO

MILANO, 22<sup>d</sup> Nov 1883

Th. A. Edison Esq. - New York

Dear Sir

The Richard's Indicator that I have used for our engine is little suited for their high speed, and therefore upon Mr. Lieb's suggestion, I beg to transmit you order for a Sabor's Indicator, such as you use for your Central Station. I shall feel obliged if you will take care that the Indicator be shipped well packed and as soon as possible. At the same time Mr. Lieb should like to have a supply for 4 Engines, and for say six months, of such packing for the piston rods of the Demingt-on and Sims engines, as you use for the same engine in your Station, and precisely the same packing that you have found to be the best for them. We have in fact a great difficulty in getting suitable shipping box packing for our engine.

Our Station proceeds very well. We still go with 1200 lamps, because I will not increase the lamps before being sure of having everything ready for the Theatre of the Scala, which opens on the 26<sup>th</sup> December. We go on very fast in wiring the theatre, laying down the feeders

1883-11-22

COMITATO  
PER LE APPLICAZIONI DELL' ELETTRICITÀ  
« SISTEMA EDISON » IN ITALIA

Via Manzoni, 12 A

Indirizzo per Telegrammi  
EDISON - MILANO

MILANO, \_\_\_\_\_ 188\_\_

and getting up the machines in our Station, so that I  
have no doubt to be in time; we have even begun to  
light a part of the service rooms of the Theatre yesterday  
night. When complete, the lighting of the Theatre will  
require 2450 lamps, but on the 26<sup>th</sup> December, only  
2000 will be lighted. — The Theatre Manzoni is  
lighted every evening since last September.  
Please to inform me about the Judicator and the  
packing referred to in this letter, at your earliest  
convenience  
I remain dear Sir

Yours truly  
COMITATO APPLICAZIONI DELL' ELETTRICITÀ  
SISTEMA EDISON, IN ITALIA  
G. Colombo

1883-11-25

SOCIÉTÉ INDUS<sup>elle</sup> & COMM<sup>er</sup> EDISON  
Société Anonyme, Capital: 1.500.000 Francs.  
à Ivry s/ Seine, 5, Rue du Parc.

Grand Diplôme  
de la Société Industrielle et Commerciale Edison  
N° 25 1883  
My dear Susan

Will you please  
bring with you statement of  
lamp factory  
machine work.

I may account with Edison  
You must give us a few days  
here as I want to ~~take~~ show you round  
I show you what we have done  
Yours  
Edison

Edison

Edison



1883-01-29.

*V. Graßhoff*

DEUTSCHE EDISON GESELLSCHAFT  
FÜR ANGEWANDTE ELEKTROTECHNIK.

INTERNATIONALE ELEKTRISCHE AUSSTELLUNG  
GRANDS PRIX-DIPLOME  
Paris 1881.

VERLEIHAMM - ADRICHOT:  
Edison Berlin.  
Reichsbank Giro - Conto.

BERLIN W., *St. 29. November 1883.*  
96 Leipziger Strasse.

*Johann J. Edison*

*New York*  
*65 Fifth Avenue*

*Ihre Briefe über Ihre Erfindung n. 18. c.  
erkennen wir in Ihrer Aufgabe ge-  
mäß*

*mit Datum 29.11.83.*

*und wir sind hierdurch sehr  
der Teilhabe in Frankreich an. Ihnen  
diesem Gebiet dank sagen wir hoffen  
Wir hoffen diese große Erfindung  
und hoffen wir Ihnen*

*Erfindungsmacht!*  
DEUTSCHE EDISON GESELLSCHAFT  
FÜR ANGEWANDTE ELEKTROTECHNIK.

*Halle 18.11.83*

Copyright

(1883)

**COE CONTINENTALE EDISON**

**SOCIÉTÉ ANONYME**  
Son Capital de 1 Million de Francs

Exposition Internationale d'Electricité  
PARIS 1881

**Grand Diplome d'Honneur.**

Adresse Telegraphique:  
EDISON, PARIS.

Paris, le 30 Novembre 1883

8, Rue de Caumartin.

*Edison Electric Light Coy of Engg  
New York*

ii. Cost price of lamps

Gentlemen,

We beg to enclose translation of a letter we just received from the German Edison Coy at Berlin, concerning the royalty on incandescent lamps to be paid to the said Company by Messrs Siemens & Halske.

We also enclose for your guidance a copy of the article of the contract referred to in that letter & must ask you to be kind enough to let us know at your earliest convenience (for the purpose mentioned in the letter of the Edison Coy at Berlin) your present cost price in N. Y. of the Edison incandescent lamps (A & B lamps)

Yours very sincerely  
*Samuel*  
President du Conseil d'Adm<sup>on</sup>

1883-12-03

*S. No. 112*

DEUTSCHE EDISON GESELLSCHAFT

FÜR ANGEWANDTE ELEKTRICITÄT.

INTERNATIONALE ELEKTRISCHE AUSSTELLUNG  
GROSSES DIPLOM-DIPLOM  
Paris 1881.

TELEGRAPH-ADRESSE:  
Kilowatt Berlin.

Reichsbank Giro-Conto.

BERLIN W.,  
96 Leipziger Strasse.

Herrn Thomas Alva Edison,

New-York

Wir besitzen Ihr geehrtes Schreiben vom 30 ten verlesen  
und erkennen Sie für den Betrag Ihrer Rechnung über:

1 Maschine a. 50 L.

1 " " " a. 25 L.

laut Aufgabe mit Dolls. *42.50* die wir Ihnen prompt remittiren.

Gleichzeitig bitten wir Sie uns gefl.möglichst umgehend  
zu sagen, zu welchem äussersten Preis Sie uns jene Maschinen  
frei Bord New-York liefern können, wenn wir von jeder Sorte  
gleichzeitig einen grossen Posten *-/25* Stück bestellen; Sie  
wissen, dass die Preise, die Sie uns aufgeben, für die Herren  
Siemens & Halske massgebend sind, und bitten wir Sie deshalb  
möglichst scharf zu calculiren und uns billigste Preise zu  
stellen.

Wir begrüssen Sie

Hochachtend  
DEUTSCHE EDISON GESELLSCHAFT  
FÜR ANGEWANDTE ELEKTRICITÄT.

*Stettin*

Copyr.

1883-12-03

Dec 3<sup>rd</sup> 1883

Mr. C. A. Dean N. Y.

We received your letter of the 20<sup>th</sup> All.  
and credit you the amount of your bill  
about 1 dynamo for 50 lights  
1 " " 25

with \$ 42.5 which we remit you,  
punctually.

We request you to tell us immediately,  
if you please, at which lowest price  
you can give us those engines of O. C. New York  
if we order 25 of each of both kinds  
at once.

You know that the prices you give  
us are as intended for Mess. Simmons & Holabec.

Therefore please make your  
calculation as closed and your price  
as low as possible.

Respectfully yours

Deutsches Edison-Gesellschaft

Our Co here have stopped selling  
25 light machines as they find it  
does not pay to send away a great  
dealment that there sometime = the 50 light  
is the lowest they sell. we are not going to  
make any more 25 light we just 50 light

1883-12-10

*S. No. 8403.* DEUTSCHE EDISON GESELLSCHAFT  
FÜR ANGEWANDTE ELEKTRIZITÄT.

INTERNATIONALE ELEKTRISCHE AUSSTELLUNG

GROSSES EHREN-DIPLOM

Paris 1881.

VERLEIHAM - AUSRUF:  
Edison Berlin.

Reichsbank Giro - Conto.

BERLIN W.,  
96 Leipziger Strasse.

*Gen. Thoma & Co. Grosse,*

*New-York.*

Wir empfangen Ihr Gechtes vom 30 ten vor. Mts. und haben  
von Inhalt desselben Kenntnis genommen.

Wir wollen hoffen, dass die qu. Meters bereits auf dem Wege  
nach hier sind, da wir dieselben dringendst gebrauchen und  
zeichnen

Hochachtend

DEUTSCHE EDISON GESELLSCHAFT,  
FÜR ANGEWANDTE ELEKTRIZITÄT.

*M. H. Schmitt*

*We got your letter of Nov 23 and  
note contents.  
We hope that the metres are  
already shipped as we  
need them not necessary*

*Copy.*

1883-12-09

883

COIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

ÉLECTRICITÉ

Grand Diplôme  
d'honneur  
PARIS 1881

*W. J. G. Taylor  
pls return*

Ivry-sur-Seine, le  
5, RUE DU PARC.

Dec 9 1883.

M. A. Edison & New York

My dear Edison,

Have just read Bailey's letter to  
Caton of 8<sup>th</sup> Dec. I agree with him in principle that  
a large capital can be enlisted in our enterprises here  
whilst there are restrictions on its actions and there  
is no doubt the entire control must be held here by  
these people. The question is, what do you get in  
return for giving up your right?

- 1<sup>st</sup> You do not have to pay back the 200,000 Fr.  
and therefore the promoters share would have an  
immediate value
- 2 Royalty on the lamp coming direct to the  
founder's share

The royalty on the lamp I think is a big thing; but  
the percentage of profits I think is worth very little,  
there are as many ways of making no large profits,  
& these few are so keen that it is doubtful in my  
mind if we get anything from that in 10 years.

The telephone here with large capital & magnificent  
business have never paid a dividend

I believe Torrey will give a great deal to get the control  
because I have talked with him a few times and  
if I were you I would ask:-

- 1<sup>st</sup> An advance royalty in our case to be paid back

2. Whenever a contract is made (like the German or Italian where money is paid in) a certain percentage of that money should go direct to the founders share.

DEC 10 1933  
RECEIVED  
MRS. J. H. B. B. B.

Charles B. B. B.

J

1883-12-11

SOCIÉTÉ ÉLECTRIQUE EDISON

SOCIÉTÉ ANONYME

Au Capital de 1 million de francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Paris 1881

GRAND DIPLOME D'HONNEUR

ADRESSE TÉLÉGRAPHIQUE  
EDISON, PARIS

Paris, le Dec. 11<sup>th</sup> 1883.

33, Avenue de l'Opéra

Mr. Ch. A. Edison  
New York.

Dear Sir,

We beg to request you to have shipped to the Deutsche Edison Gesellschaft, 96, Leipziger Str., of Berlin as quickly as possible the following material:

- 2 machines for scraping fibres down to gauge after the finishing mould.
- 1 standardizing machine complete for sizing fibres by spot of light
- 1 mercury screw pump
- 300 mercury coats with half dozen bags for parts.
- 1 machine for drying lamps with air-pump complete
- 1000 carbon forms for N. 16.
- 500 " " " " B. 1.
- 400 " " " " N. 10.
- 400 " " " " N. 32.
- 1000 Rubber coats assorted holes
- 2 Catalogue flattening boxes as samples
- 1 full set of burners for glassblowing
- 2 tweezers for inside parts



1883-12-11.

Kindly send your invoice  
for this order to us, and, acknow-  
ledge receipt of our payment by  
return of post.

We remain

Yours very truly,

*John R. [Signature]*

E. L. Italy

1883-12-14

COMITATO  
PER LE APPLICAZIONI DELL'ELETTRICITÀ  
« SISTEMA EDISON » IN ITALIA

Via Manzoni, 12 A

Indirizzo per Telegrammi  
EDISON - MILANO

MILANO, 14<sup>th</sup> Dec 1883

64/10  
Th. A. Edison Esq. New York

Dear Sir

We are duly in receipt of your fac. of 21<sup>st</sup> and 30<sup>th</sup> ult.

We thank you for details of new machines. Hoping to give you larger orders for same in a short time, we give you order now of:

{ One Dynamo G. (27 lamps)

{ One Dynamo R. (50 lamps)

which you will ship as early as possible advising us when put on board.

We will return the 500 packets to Bergmann & Co with the required notification for the Customs House, as the discount offered is not sufficient to compensate their rough appearance. You will please to credit us of their amount when returned.

Mr. J. Full, when he will come, will find that almost all the accounts are completely settled, as we have cabled you some time ago. We hope that the Tirif Coy. have informed you in due time of this settlement and are surprised to hear you speak of claims.

There are only two questions open yet: that of one Porter-engine, and that of 4 feeder-regulators. For the Porter-engine, we must add that we have found the crank pin cracked and therefore altogether unfit for work; but if you could furnish the damaged crank-shaft with a new one, we may perhaps consent to keep the engine, to be used for the seventh dynamo. As to the feeder-regulators, we have not used them and will probably never find the use of them. We confirm you our letter of the 22<sup>d</sup> ult. ordering some packing for stuffing-box of Arrington engines and a Tabor indicator.

We confirm also the following telegram sent you day before - yesterday and repeated to-day:

"Cable when balance order lamps shipped,  
Command other 2000 A 1000 B 102 volts  
1000 C not above 107"

With this cable we intended to ask you whether and when you have shipped the 1200 lamps to balance the 4000 ordered by us with our cable of 6<sup>th</sup> ult. Moreover, we give you order for:

2000 lamps A, of about 102 Volts  
1000 " B " " 107 "

1000 C-lamps.

We do not know if you use C-lamps, although we infer it by your statement of Dynamos.

We have some C-lamps of high E.M.F., say 107 to 113 Volts that we find useful; therefore we beg you to find the C-lamps of an electromotive force not above 107 volts, although for us it would be more convenient to fix our standard E.M.F. at 102 Volts for all lamps. If you think that using C-lamps of 102 Volts is equally convenient from the point of view of durability and economy of power, you may find all the C-lamps of 102 Volts. You will oblige us by sending back to us any of our cables that is unintelligible; otherwise the Telegraph-Board will not compensate us of the expense of repeating it. Please to do this not only in future but also for the last 2, or 3 cables that we have been obliged to repeat.

Awaiting your earliest reply we remain  
dear Sir

COMITATO PER LE APPLICAZIONI DELL'ELETTRICITA'  
SISTEMA EDISON, IN ITALIA

Edison

Dec 10 1883  
Mr. A. Edman

Received telegram as follows:—

Dec 8. Prepare yourself  
return immense from  
building thirteen central  
stations. Result return  
Newark station which  
netted over five thousand  
November "

Dec 15. Talk with Insull  
fully about European Company  
affairs in order see him  
pages "

Yours  
"Balch"

1883-12 (28)

1883-12-18

INSTALLATIONS D'ÉCLAIRAGE ÉLECTRIQUE  
Système Edison

SEUL DIPLÔME D'HONNEUR  
pour l'éclairage Électrique par Incandescence  
EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ



SEULE MÉDAILLE D'OR  
pour Système complet d'Éclairage Électrique

EXPOSITION  
INTERNATIONALE D'ÉLECTRICITÉ.



INSTALLATIONS  
DES  
Transmissions de Force motrice  
stationnaire par l'électricité.

LAMPES EDISON

MACHINES ÉLECTRO DYNAMIQUES  
de toutes dimensions.

ACCESSOIRES  
de tous genres et installations  
D'ÉCLAIRAGE ÉLECTRIQUE

Adresse Télégraphique ÉLECTRICITÉ, Genève.

Société d'Appareillage Électrique

8 Boulevard du Théâtre . 8

GENÈVE

Genève, le 18 Décembre 1883

Monsieur Th. A. Edison  
65 Fifth Avenue, New-York.

Monsieur

Nous avons bien reçu votre honnête lettre du 21  
Novembre dernier, qui nous indiquait le prix, F. O. B.  
New-York City, de vos nouveaux types de machines dynamo,  
et vous remercions vivement de ce renseignement.

Pour aujourd'hui nous venons vous faire la  
commande de : 1 machine dynamo G de 25 lampes 16 cp.  
et de : 1 " " " " R de 50 " " "  
avec 2 paires de balais de rechange pour chacune d'elles.

Quant à votre lettre nous pensons que vous  
pourrez nous faire l'expédition anticipée après réception de la  
présente lettre. Si cela ne doit pas retarder l'expédition, nous  
commandons en plus pour chacune des deux machines une  
armature de rechange.

veuillez, Monsieur, agréer l'assurance de toute notre  
considération.

Vos très-humblement dévoués

SOCIÉTÉ D'APPAREILLAGE ÉLECTRIQUE  
A GENÈVE

P.S. Chaque machine devra avoir son  
régulateur de résistance.

Le Directeur délégué

Prière de nous faire connaître le poids des  
machines dynamo. Nous ne connaissons le poids que de H seul.

A. Richard

1883-12-18

Form L. 3000-02-7-93.

THOMAS A. EDISON,  
Central Station, Construction Dept.,  
No. 65 FIFTH AVENUE.

Société d'Appareillage Électrique  
8 Boulevard du Faubourg St.  
New York, \_\_\_\_\_ 188

Translation.

Geneva, 18<sup>th</sup> December 1883.

Mr. Louis A. Edison,

57 Fifth Ave. N.Y.

Sir, We duly received your favor of 21<sup>st</sup> inst. giving price for  
New York, of your new Dynamos, & we thank you very much for this  
information :-

To-day we pass you the following order :-

- 1 - G machine 25 lamps @ 16 c.p.  
1 - R " " 50 " " 16 c.p.

with two extra pair of brushes for each machine. -

According to the terms of your letter, we suppose you  
can ship these dynamos immediately upon receipt of the payment. -  
If it does not delay the shipment we would like to have  
an extra invoice for each machine. -

We remain &c. Very truly yours -

" Société d'Appareillage Électrique "  
à Genève -

P.S. / Each machine must have  
a resistance box - Please  
give us weights of the  
Dynamos; how many have  
weights of the 4 machines.

1883-12-23

SOCIÉTÉ ÉLECTRIQUE EDISON

SOCIÉTÉ ANONYME  
Au Capital de 1 million de francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ  
Paris 1881

GRAND DIPLOME D'HONNEUR

ADRESSE TÉLÉGRAPHIQUE  
EDISON, PARIS

Paris, le Dec. 23<sup>e</sup> 1883

33, Avenue de l'Opéra

Mr. Thomas A. Edison  
65 Fifth Avenue  
New York

Dear Sir,

Will you please ship soon-  
est possible to our Antwerp Depot  
1 Standard incandescent  
No. 259. of Catalogue Besenmann  
and oblige

Yours very truly  
SOCIÉTÉ ÉLECTRIQUE EDISON

*Samuel Ben*  
ADMINISTRATEUR DÉLÉGUÉ

*If this is all right dont  
send it, but write & say  
that we find these lamps  
unreliable & ship another  
style, when ready. To ship  
have & procure write a description  
how to set factory send  
Lamp 1/2 doz lamps  
pled by keep  
with it &*



1883-12-25

SOCIÉTÉ INDUS<sup>elle</sup> & COMM<sup>le</sup> EDISON

Société Anonyme, Capital: 1.500.000 Francs.

à Ivry S/ Seine, 5, Rue du Parc.

Grand Dépense  
3<sup>e</sup> Classeur  
PARIS 1881

Jozij, le

188

Dec 25<sup>th</sup> 1883

My dear Edison,

I give you a few more points on the proposed new company as I understand them from Mr Bailey. As I am never requested to attend the meetings in reference to such things I can only give you my opinion on what Bailey likes to tell me —

I should advise very strongly never sending powers till you have heard all the points. In Mr Bailey's letter of Dec 8<sup>th</sup> he said that he and I together would send a joint telegram asking for powers. He sent which should not be used except on terms laid out in that letter. But I refused to do any such thing and the changes that are to day made as I relate them below justify what I did —

2.

1883-12-25

The proposition is told me by Bailey as follows:—

There shall be a royalty on all lamps manufactured or sold of 25 Centimes coming to the founders shares.

40% of the profits of the company after certain deduction shall come to the founders share.

Now these founders share shall be divided as follows:—

- 19 parts to the Edison Elec Lys Co<sup>ltd</sup>
  - 5 " to the Swan
  - 16 " to the parts of founder (old)
- { that are held here, the Syndicate + the bank.

∴  $\frac{19}{40}$  (of the royalty + 40% of profits) will come directly to the right Co of Europe

They propose to take all the commitments over at par and give them fully paid up shares — they raise the capital to 10,000,000 but only pay up cash for half

1883-12-25

the difference between the 3,500,000  
of the present company + the 10,000,000  
therefore the actual Cash Capital  
would be 3,500,000 in present company  
3,250,000 shares half paid  
Fr. 6,750,000.

The profits of this company are to be  
divided as follows:—

- 5% of profit for legal reserve
- then 6% dividend to paid up capital
- then 11% of total profit to board of  
directors
- then 10% of total profit to a fund for  
amortizing the total capital
- then what is left is divided
- 40% to the founders share
- 60% to supplementary dividend  
to stock

As regards the division of profits  
I would remark that the 11%  
to board of directors seems to me  
very high especially as the board  
receive half something for sitting  
which is called "jeton de presence"

1883-12-25

and although during the last two  
years the has been used up in  
other ways + the directors have received  
nothing in the new Statute, Mr  
Bailey says they propose to increase  
this by 10,000—

The 10% as a fund for amortiza-  
ment is done, after Bailey has  
told you that the Capital of  
the Societe Electrique + Compagnie  
Sociale Industrielle will not have  
to be paid, he brings forward this  
amortisement with perfect  
equanimity; from this you  
see that you not only have  
to pay back the company's  
Continental + Societe Electrique  
but also the Societe Industrielle  
+ the rest of Capital, but it  
would taste perhaps 10 years  
instead of eight—  
I think myself that the  
amortisement of the Capital  
is a good thing in the long run  
as it reduces the 6% of Capital

1883-12-25

making them deferred shares in time but also putting further back the actual value of our Edison Electric Light share.

If you notice these percentages are of the total profits now after there come 40% of the rest to the founders shares.

I will suppose a condition such as will probably be actually the case in two year time if we work hard.

= Capital paid up 6,450,000  
400,000 lamps sold per year  
profit 20% on paid up capital.

Profit = 20% of 6,450,000 = 1,350,000  
Legal reserve. 5% = 64,500  
1,285,500

6% to Capital paid up = 405,000  
844,500

11% total profits to the Board of directors = 148,500  
929,000

over

1883-12-25

6.  
Carried over 429,000  
10% to a fund for amortisement of Capital 135,000  
594,000

Of this 40% to Founders  
60% to supplementary dividend

Founders share then would receive  
40% of 594,000 = 237,600  
+ 400,000 lamps at 25¢ = 100,000  
To 337,600

Now 19% of this will come to the Edison Electric Light Co of Europe (limited) which is 70/100 360 or \$31,150

This would be a dividend for the European share of 1 1/2% or if capitalized at 6 per cent the European share would be worth \$26 per share.

Mr. Bailey says it is necessary to put powers of vote unsheld by the European Co of New York

1883-12-25

into the hands of a vote of the stock-holders but this is not absolutely necessary for from an interview which I shall had with Poppe he stated distinctly that all he wanted was that the European Light Co should keep some person here whom it could trust, & to whom it would give a power of attorney to act immediately; & this a point that he wishes to have settled immediately can be decided in a few hours instead of waiting a week.

He even went so far as to suggest that Travel Hays & Co might be people whom the European Co could trust especially as they held so much interest in the companies as both Poppe and his bank together.

Certainly such a power never ought to be given to Bailey as in my opinion he cannot get

1883-12-25

8  
 certainly do the Co justice - In my opinion he owes a great deal of money to Leon - He told me the other day that he was in a fix and Leon & Lacey had guaranteed to arrange for him to borrow another \$25,000 & help him over, he did not say what return he gave for this - I know he has tried to borrow money from Poppe - I delivered almost all the founder's shares that I had to deliver to Puskas & Bailey & which were Bailey's part to persons having his order to receive them his showing that he must have borrowed much money on them - Poppe says he spends large amounts per year besides his salary in travelling around Europe unnecessarily - Finally I think a man so tied up to these people, is completely bound to them to get his daily bread, cannot get the best con-

1883-12-25

victims for his employer the  
 Edison Electric Light Co. of Europe  
 In my opinion these people  
 especially Poppo who I have  
 talked with a great deal would  
 give anything to have the  
 control that is now exercised  
 by the Light Co. in Paris where  
 it can be consulted at a minutes  
 notice. For this they were willing  
 to give the Light Co. 25% royalty  
 on lamps, forgo the payment  
 of the \$2,000,000 of Capital and  
 give 40% profit in a new company  
 of 6,450,000 paid up capital -  
 What does Bailey bring us?  
 A company which not only pays  
 back the 2,000,000 but also pays  
 back the whole total.  
 A company in which the board of  
 directors gets as much as the  
 total coming to the Light Co.  
 A Company in which the Light Co.  
 gets 8 1/2 per cent of the total profit

1883-12-25

10

In fact a company which in  
 two years if they did as good a  
 business as I have shown would  
 make the Light Co. stock worth  
 \$25

George Batchelor

- Incul reads this and sends  
 it on from London - @B  
 After working nearly 3 years and not  
 receiving enough to board me you  
 will not wonder that I would sooner  
 come over there when the prospect  
 of working two or three years more to  
 make my stock worth \$25 stares me  
 in the face. You C.B.

1883-12-26

Memorandum

SOCIÉTÉ ÉLECTRIQUE EDISON

PARIS

Société Anonyme Capital 1 million de francs

33, Avenue de l'Opéra

*Handwritten scribbles and initials on the left margin.*

*Mr. De ...*  
*...*  
*...*

Wiley showed me a copy of the ~~perf~~ contract  
he also reading to us in Sunday and I found  
the part to E. & L. Co. of E. is ~~been~~ a little  
less being about 21.5 - 40.5 instead of  
24 40.5. Had a long talk with  
Ingers today. He asked me whether I had  
decided and I told him that I had  
about decided to go to the States for a  
month & then come back in about  
4 months. But that in California going



1883-12-29

Lamps

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON.

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ELECTRICITÉ

Grand Diplôme  
d'Honneur  
PARIS 1881

Ivry-sur-Seine, le 29<sup>th</sup> Decembre 1883  
5, RUE DU PARC.

E. A. Edison Esq.  
New York.

Dear Sir,

The object of the present is to obtain different  
relations to the fabrication of lamps. These particulars  
enable us to adapt our fabrication to the demands made  
in a more satisfactory manner than hitherto.

Lamp A? cut 6' x 8' x 13 1/2"

Our fabrication gives us lamps ranging from  
92 to 112 volts in an average proportion of about 5% for  
each of these volts.

We would like to know whether you have a means of  
producing at pleasure lamps of a given kind, for instance  
whether you can get for one day's output 92 to 102 volt  
lamps and another day's output 102 to 106 1/2?

Does this means consist in the carbonisation or in the  
measure of the carbons cold or else in the manner  
of heating the lamp whilst making the vacuum?

2. Lamps B? cut 3' x 7' x 13 1/2"

We only get these lamps between 62 & 65  
volts; they are consequently higher than the A?<sup>th</sup>

It is impossible to produce  
new lamps ~~to~~ make a days  
run within 4 volts except by  
stating that it depends entirely  
on the accuracy in which the  
process is followed. I have  
written every day



1883-12-29

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON.

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ELECTRICITÉ

Grand Diplôme

IVRY-sur-Seine. le  
5. RUE DU PARC.

*Handwritten notes:*  
The Commission  
of Lamps  
you can demonstrate length  
of the lamp  
increased the size of the  
the lower  
What should be done to remedy this?  
Lamps 1.6 out 6p  
2. B? out 7p  
for what reason have you abandoned the  
filament out 6' x 5' and adopted instead the 6p' x 7p'  
size? Is the latter's economy better?  
We have made some of these lamps and their  
life appears good but they are much higher volts  
than the 6' x 5'. The average for the 6' is  
from 110 to 120 volts; we cannot therefore continue  
to make them before knowing some means of re-  
ducing the volts. Please say how you succeed  
in doing so?  
h. Handl. lamps out 5'  
These lamps average good for volts  
but their life does not rise above 200 to 300 hours

comparatively and it is thus difficult for us to supply  
3 lamps in a plant having 4 lamps of 76 volts; we  
would need 3 lamps of 67 volts and we only get a  
few per thousand.

What should be done to remedy this?

Lamps 1.6 out 6p x 8 x 13p.  
2. B? out 7p

for what reason have you abandoned the  
filament out 6' x 5' and adopted instead the 6p' x 7p'  
size? Is the latter's economy better?

We have made some of these lamps and their  
life appears good but they are much higher volts  
than the 6' x 5'. The average for the 6' is  
from 110 to 120 volts; we cannot therefore continue  
to make them before knowing some means of re-  
ducing the volts. Please say how you succeed  
in doing so?

h. Handl. lamps out 5'

These lamps average good for volts  
but their life does not rise above 200 to 300 hours

1883.12.29

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON.

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
D'HONNEUR  
PARIS 1881

Ivry-sur-Seine. *le*  
5, RUE DU PARC.

3

What can you say on this point?

5. 50 Candle lamps cut 6'.

These lamps are so high in volts that we cannot make them. Why have you given up the 5' size and replaced it by the 6'?

By what means do you reduce the volts?

6. 50 Candle lamps.

All the 50 Candle lamps we make are too high in volts; they range from 115 to 125. The life is very short, something like 100 hours! Can you give us any impression about this?

7. 100 Candle lamps.

They have the same defects as the 50 candles in a higher degree. They are extremely high in volts and don't last long. The carbons open split in their entire length during the fabrication. The inside part breaks often where the platinum passes.

Can you give us any means of remedying these defects which render impossible the

1883-12-29

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON.

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EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'Honneur  
PARIS 1881

Ivry-sur-Seine, le  
5, RUE DU PARC.



to

fabrication of certain lamps.

2. In terminating we would request you in general manner to inform us with the greatest detail of all the improvements in manufacture which your experience can suggest, and principally on the following points:

by narrow gauge.

5 or 6 hours  
be careful about  
oxidation -

2 to 3 hours  
according to state of tubes.  
four pounds per minute  
no

You can push your  
percentage  
15-20% is very good

Out of cans. What are the means of verifying?

Carbonisation. How long should the operation last and how must the temperature be conducted?

Measure of carbon. What is the limit for each carbon over which they must not be used?

Vacuum pumps. How long does the operation last? How much mercury runs through each pump per minute?

Is there a means of doing the operation so as to bring the lamp near to a certain volt?

Lys. Eeeting. What percentage of these of lamps of each volt? What is the average duration and the manner of increasing it to 600 hours. Care in every detail.

1883-12-29

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON,

*Société Anonyme, Capital: 1,500,000 Francs*

EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'honneur  
PARIS 1881

Ivry-sur-Seine, le  
5, RUE DU PARC.

*E*

*Thanking you in anticipation for the information  
you will kindly give us on the points above men-  
tioned and which are of the greatest importance  
to us we remain,*

*Dear Sir,*

*Yours faithfully,*

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

*P. V. Picard*

1883-12-31

Gebüder Sulzbach

DEPESCHEN-ADRESSE

CEBSULZBACH - FRANKFURT-MAIN

Frankfurt M. d. 31. Dec. 1883.

Mr. H. A. Cotton

65 Fifth Avenue  
New York

Dear Sir

We beg to acknowledge the receipt  
of your telegram reading thus:

Cable me quickly returned hundred  
eighteen dollars please Mr. H. A. Cotton  
for me by German Cotton Company.  
I regret very much the mistake occasioned  
by Mr. L. Speyer - Cotton here, who had been  
instructed by New York Journal  
Speyer & Co. to effect the payment.

Mr. Speyer - Cotton having called  
immediately after the arrival of your telegram  
we had no doubt that the payment of  
\$ 177.90 had been taken place in the main  
today.

Yours,  
Very truly,  
H. A. Cotton

Hon. G. L.

1883-12-31

Mr Edison -

Batch's letter is the  
clearest we have ever had  
from there -


When you took Bailey  
two years ago, you know  
Fabber said you wd  
regret it - I guess F.  
had the best judgment  
abt that - Personally,  
I don't think Bailey

1883-12-31

reliable -

I suggest you cable for  
Insell + Batch. to agree  
on best terms with  
Pargos they can get,  
+ Insell bring them home  
for our prompt action  
here -

I don't think Bailey  
ought to hold our  
power of atty -

  
(Major Eaton)

GERMAN EDISON COMPANY  
FOR APPLIED ELECTRICITY.

The general meeting shall order:

1. The following second addition to the statutes of the German Edison Company at Berlin.

ARTICLE 1.

In place of the paragraphs, numbered as below in the Statutes of the stock company with the firm name: German Edison Company for applied electricity, the following resolutions having numbers, corresponding to the numbers of the paragraphs, are substituted.

Section 2.

The company has its Offices at Berlin; she can transfer them to some other place in Germany. She has a right, for the purpose of accomplishing her object, to establish Branch offices, sociétés en commandite, (companies with special partners) and Agencies at home and abroad, she can also participate as special partner or share holder in sociétés en commandite or as active partner in commercial companies and she can sign bonds or shares in sociétés en commandite or in stock companies.

Section 3.

The object of the Company is the practical application and working of electricity in all its branches but specially the practical application and working,

1. of the patents granted and in force or yet to

*more to change?  
same*

*included to  
everything*

be granted to Mr. Thomas Alva Edison of New York, in the German Empire, the Empire of Russia and the Kingdom of Denmark, and which relate to the measurement, the division and application of Electricity for lighting and for transmission of power. Herein are included the patents for improvements or additional patents on these subjects.

2. of the patents granted or yet to be granted to Mr. Thomas Alva Edison of New York, on the same subject in other countries than the above named ones to the extent that the company should acquire the right to such working in the future. Concerning the working of the company the rules in paragraphs 35 and 35-a of the Statutes are in force.

Section 13.

In case of a liquidation the owners of certificates shall receive, in proportion to their share, 35 per cent of the amount of the settlement over the capital paid in. The fusion of the company with another is only allowed if, according to the Statutes of the new company formed by this union, the further existence of the certificates, with an extension of the rights of their owners (Paragr. 11 Sec.1) to the profits, that is to the surplus of the enterprise of the new company formed by the union, is guaranteed or if another arrangement satisfactory to all owners of certificates has been made.

Paragraph 31. Line 4 to the end.

A change of the object of the company or the dissolution of the company, except in the case when the dissolu-

*Fusion without  
Consent of Corp. Card*

X



tion is effected by the union of the company with another, cannot be ordered up to the 5 May 1893 without the consent of the Compagnie Continentale Edison at Paris or of her legal successors except under the conditions foreseen in paragraph 4.

Furthermore the following rules of the Statutes cannot be changed without the consent of the Compagnie Continentale Edison or of her legal successors: paragraph 4--Paragraph 11-- first section of paragraph 12-- paragraph 13-- paragraph 31 (as far as it treats of the necessity of the consent of the Compagnie Continentale Edison to certain resolutions made by the general convention,) paragraph 33 (as far as it relates to the privileges of the owners of certificates;) finally the paragraphs 35 to 46 inclusively.

The admissibility of the union of the company with another is made under the supposition that the rights, according to the Statutes, of the Compagnie Continentale or of her legal successors are maintained.

Section 35.

The German Edison Company for applied electricity has purchased from the Compagnie Continentale Edison at Paris with the consent of Mr. Thomas Alva Edison and of the Edison Electric Light Company of Europe limited of New York and under the rules of article 209.b of the general German commercial laws (in the form of the edition of 11 June 1870) the rights, for the territory of the German Empire of the afore mentioned Electric Light Company, accruing from the pat-

*All modified*

ents of the inventions of Mr. Edison, and specially the following privileges.

1. The right to manufacture or to have manufactured all the machines, apparatus, tools and materials belonging to the Edison processes mentioned in paragraph 3, no matter if they are patented or not, also the right to get these objects from other places and to sell them but with the restriction that the Edison method for the manufacture of incandescent lamps cannot be <sup>made</sup> known by the company to a third party for the purpose of manufacturing without the special consent of the Compagnie Continentale.

2. The right to establish stations for purposes of lighting and transmission or to give the necessary permission therefore to others.

3. The right to use the objects mentioned under 1 and 2 for herself and to allow third parties to use them. Mr. Edison, the Electric Light Company and the Compagnie Continentale Edison do not give any other assurance than that of the actual existence of the patents.

The right of manufacture (under 1) extends to the machines, apparatus and tools necessary for electric railways but not to the use of the same.

The company is only limited in her workings and in her afore mentioned rights by the rights given to the firm of Siemens and Halske of Berlin in two contracts made the 13th of March 1883 between this firm on the first part and Mr. Edison, the Edison Electric Light Company, the Compagnie Continentale Edison and others, on the other part.

Correspondingly the rights settled in these two contracts on Mr. Edison, the Edison Electric Light Company and her legal successors are therefore also transferred to the German Edison Company.

As purchase price for the above described rights the company, from her capital, has paid in cash to the Compagnie Continentale Edison of Paris the sum of 350,000 Marks

There is p. p.

(insert to end of parag. 35)

Paragraph 35-a.

The German Edison Company for applied electricity purchases herewith from the Compagnie Continentale Edison, with the consent of Mr. Edison and of the Edison Electric Light Company, the same rights which according to parag. 35 are granted to her, for the territory of the German Empire, also for the territories of the Empire of Russia and of the Kingdom of Denmark, to the extent that they are allowable and transferable to patent owners according to the laws in force in said countries.

As purchase price for the newly granted rights set forth in this paragraph the German Edison Company, from her capital, pays the cash sum of 50,000 Marks to the Compagnie Continentale Edison, the owner of the patent and inventor's rights of Mr. Edison and of the Edison Electric Light Company.

Section 36.

The Compagnie Continentale of Paris binds herself

*Noto Russia  
Denmark*

to make known to the Company, and to her exclusively, all inventions on this subject patented and not patented, all improvements and results of experiments which she has on electric lighting and transmission of power or which she may yet get possession of up to 15 November, 1886, and to do this for Germany, to the full extent of the processes mentioned in sec. 35, and to assist her in every way in the carrying on of her business in Germany so that she will be able to bring the manufacture to the same degree of technical perfection as the Compagnie Continentale herself.

The Company of Paris shall specially be bound to furnish to the company competent instructors at the latter company's expense. The German Edison Company is bound to reciprocate on all these points.

The German Edison Company at her expense shall have made out all those papers which are required for the formal transfer of the patent rights to her, according to the respective laws of the country. The Compagnie Continentale guarantees to furnish the necessary certificates of transfer and the powers of attorney of the present patent owners in the proper form and at the expense of the German Edison Company and from the time of the record of these papers in the commercial register, the Compagnie Continentale is free from all responsibility for the maintenance of all the patent rights transferred from her to the German Edison Company.

For the consideration of future patents, improvements and additional patents the German Edison Company has

to treat directly with Mr. Edison and the Electric Light Company without the intervention and responsibility of the Compagnie Continentale. In this respect also the German Edison Company has to bear the expenses for the granting and transfer of the patent right.

Section 38.

The Company on her part takes the obligation to see at her expense to the protection of the Edison patents under consideration with respect to the payment of the annuities and also to the working of these patents in the prescribed limits of time. If a law suit has been necessary for that purpose, arrangements for the settlement of the law suit may be taken independently by the company even if Mr. Edison or the Edison Electric Light Company should have made use of their right to interfere (paragr.37)

Section 40.

In the case of the dissolution of the company, specially in case of her liquidation the patent rights transferred to her, as far as they are still in force at the time, return without compensation to the Compagnie Continentale. An exception to this is the case of the union of the German Edison Company with another or the liquidation for the purpose of decreasing the original capital.

The patents transferred to the new company formed by the fusion shall also return to the Compagnie Continentale if this new Company should also dissolve while the said patents are still in force.

Section 41.

Besides the advantages laid down in paragraph 12 the German Edison Company is held to send every six months, after the balance of the accounts of the Company, the following remittances to the Compagnie Continentale Edison of Paris, which remittances shall be payable at the treasury of the latter Compagnie.

a. for every incandescent lamp used or sold within the German Empire by the German Edison Company or her licentiates or by the firm: Siemens and Halske on the strength of the agreement mentioned in paragraph 35, no matter where the<sup>so</sup> used or sold, incandescent lamps come from, and independently from their illuminating power, 16 2-3 per cent of the cost price at which the German Edison Company manufactures or purchases her lamps, but in no case more than 25 pennies (Pfennige) per piece. But the lamps which the firm: Siemens and Halske, on the strength of aforementioned agreement, and the lamps which the German Edison Company herself use in their own business and manufacturing establishments are free from this tax.

b. a tax for every light installation by incandescent lamps, established within the German Empire by the German Edison Company or her licentiates, or by the firm. Siemens and Halske, on the strength of a several times mentioned agreement: This tax is to be paid for every horse power actually expended for such incandescent lamps, the horse power being equal to 75 kilogram Metres per second. To determine

the number of horse powers used in lamps we have to make use of the electric system of measurement; for the first 50 horse powers to be considered in an installation the tax will be 12 1-2 Marks per horse power, for every further horse power 16 Marks. For extraordinary installations which are transitorily put up this tax has not to be paid. In installations of mixed illumination (Incandescent and Arc Light) this tax is only paid for the horse powers spent for the incandescent lamps.

*new*

c. for every incandescent lamp used or sold by the German Edison Company or her licentiates outside of the German Empire no matter where the lamps come from:

1. 15 pennies up to an illuminating power of 5 ordinary candles inclusively.

2. With an illuminating power of 6 ordinary candles and above-- 30 pennies, but in no case more than 25 per cent of the cost price at which the German Edison Company manufactures or buys her lamps at that time and in no case less than 12 1-2 pennies per lamp of the illuminating power of C-1 and 25 pennies per lamp of the illuminating power of C-2.

*X*

The lamps used in the business and manufacturing establishments of the German Edison Company are also free from the tax spoken of under c.

The taxes for the lamps and dynamo machines used and sold by the company herself are due at the end of the six months during which the respective lamps and dynamo machin-

as have been put in use or sold. For the lamps and machines used or sold by the firm: Siemens and Halske on the strength of a several times mentioned agreement and also by the licentiates of the Company the taxes are due every time as soon as the Messrs. Siemens and Halske or the licentiates of the German Edison Company have paid to the latter one the amounts due therefor. The German Edison Company shall furnish to the Compagnie Continentale Edison of Paris every month a list of the machines sold in Germany, for the production of the current for the purpose of illumination by incandescent light, by herself, her licentiates or by the firm: Siemens and Halske and she shall give the necessary details. She shall also furnish a list of the incandescent lamps disposed of outside of the German Empire, by herself or her licentiates and she shall give the illuminating power of these lamps. For every horse power expended in Electric light, as far as, according to b a tax is to be paid on it and for every lamp, this tax has only to be paid once.

Section 44.

The German Edison Company is held to pay the taxes, for the patents mentioned in paragraph 3 (wording of the present addition) paragr. 35-a and paragraph 36, always at the right time <sup>and</sup> before due at the proper treasury, and to send the vouchers therefore at least a month before the expiration of the last term to the Compagnie Continentale Edison.



The German Edison Company has the right to give up all or separate ones of these patents, but not before she made her intention in that respect known at least three months ahead to the Compagnie Continentale Edison, to enable her to see at her own expense to the protection of the said patents. If the Compagnie Continentale Edison makes use of this right she becomes the owner of the patents given up by the German Edison Company which patents may, if required, have to be transferred back to the former Company, which retransfer would not interfere with the claim of the Compagnie Continentale Edison on the advantages and taxes coming to her on the ground of the existing agreements.

II. To authorize the superintending board, to order, in common with the president of the company, those formal modifications of the resolutions in article 1 which shall be found necessary and to order the entering of the modifications of the Statutes agreed upon into the register of the company.

THOMAS A. EDISON,  
NO. 65 FIFTH AVENUE.

(1883)

NEW YORK \_\_\_\_\_ 188

F. O. B. Amsterdam -

Dynamo Machines:

	Dollars
25 light 16 candle .75 amperes per lamp.	175
50 " " " " " "	250
75 " " " " " "	310
100.	<del>380</del>
150	510
200	675
250	800
300	950
400	1250
500	1550

All these machines give 125 Volts. 30 lamps of  
any lower volts can be used -  
All have the same Belt speed -

36"  
183

(1883)

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

Société Anonyme, Capital: 1,500,000 Francs

EXPOSITION INTERNATIONALE D'ELECTRICITE

Grand Diplôme  
d'Honneur  
PARIS 1881

M. A. Edison Esq.

Ivry-sur-Seine, le  
5, RUE DU PARC.

New York.

write this to Soliman  
Sims -  
send copy of this to  
John Tabor

My dear Edison,

A hint for the Machine Works,

Herriss tells me that the C dynamo all came to Milan without having the bearing pieces of the shafts tallowed - He says they were lapped with paper and then outside of this there was some tallow, but not inside - The sea air so rusted them that he says it took him over two months to get them to run without heating - He says that with any more they ought to tallow them well and afterwards wrap them with a piece of felt that has been dipped into melted tallow.

Another thing; he says that the Arrington engines came not entirely together and there were no marks to tell which piece belonged to which engine - Perhaps you will notify them of this.

Arrington Engine. I am very much disappointed about these people - Arrington never comes near us and repeated letters and telegrams cannot bring him here although he knew I wanted to make tests for some people before Cummings left - There were many things wrong in the drawings sent which we have had to get

(1883)

SOCIÉTÉ INDUSTRIELLE ET COMMERCIALE EDISON

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EXPOSITION INTERNATIONALE D'ÉLECTRICITÉ

Grand Diplôme  
d'Honneur  
PARIS 1881

2

Ivry-sur-Seine  
5, RUE DU PARC.

over as best we could - Have you a good man that you could send me if I want him; a Frenchman if possible who is fit to take the overseeing (a sort of leading workman) of the engine and dynamo building - My director is confident that he can get along but I should be more confident if we had a man that had helped to make them there; I shall not want a \$3000 a year man but a good workman who has worked in the machine works. I could use Henry but he is too valuable a man for me outside - Let me know by letter -

Wrinkle on Dynamo. Under the commutator bars we have always put japanned paper instead of mica in the small sizes of dynamos. I find that in many cases this paper is carbonized & sometimes even we have noticed nothing wrong with the machine particularly - I put mica in them now. - Perhaps you do the same

Send this to Sadhan  
1  
a Copy to my father  
for defect sheet

Yours truly  
Chas. Batchelor

(1883)

Leipziger Straße 96.  
Berlin  
find out about Riedt

Dear Mr Edison.

I wrote a hasty note to you some weeks ago, relating particularly to meters and a man for the Meter department. Very shortly afterwards, we received an application from a Mr Riedt who represented that he had just come from New York, where he had been in charge of the Meter department. His services were secured, which was very fortunate, if his experience is as represented, which we have yet to find out.

We have telegraphed to Bergman & Co. <sup>through the office</sup> to ship us a number of Meters and some extra hundred-light shunts. In the first large order for material which we sent, we mentioned six of each size

complete, but we only received six altogether. In my last letter, I wrote you to please forward the balance, and also several extra of larger size and numbers stated. Then we telegraphed you a few days ago, to know when the meters had left; you answered: you had no order, which was strange, considering my letter, which you must have received by that time. This has somewhat delayed us, but we trust the order sent Bergman by cable will be dispatched immediately. We shall test our Central Station for the two clubs here, within a week, and we desire to fit them both with our meters as soon as possible, and also our own building in which there is a Café &c. We are now putting in an installation near us in which three parties receive the light, two of them being charged by meter by the third party, who has undertaken the expense of fitting up the installation. We have just fitted two Cafés with

Call the attention to my letter to

Electric light, the power being supplied by Otto gas machines, the latter are of the double Glinder type, 8 horse power, and by means of a governor on the counter-shaft, which was designed by Mr Rathenau, we secure perfect steadiness and regularity in the light. In London, we made tests with both the Otto and Thompson & Stern gas machines, but even with the fly-wheel on the armature, we did not secure regularity in the light. I think the regulator spoken of, is a big thing, and will give us very much business in Berlin, which we could not handle, except from central station.

Machines. We have received the two types of H and T machines, and after a test of both, have given Siemens and Halske an order for a number of each of these forms. The delay in the receipt of these has inconvenienced us, and it is a matter of surprise to us, that they have been sent, without a drawing or pattern

The machine is located in room 500 E. of the 400 am. line.

of any first coming with them. The consequence has been that, Semans and the other have had to take them to pieces, up to the last bolt and washer. The T machine we tested with a 100 lights and it gave very satisfactory results. The H. Machine based upon what we heard from you and Mr. Patchelor, was tested by us with 500 lights, as we desired to prove its arrangement capacity, and make an arrangement relative to its use of same with Semans and Lalake. After running for four or five hours, we found the armature very hot, although ready, not hotter than I have seen machines before, which are rapidly run. On examination we found the centrifugal force had become great, that at the speed of 1000 to 1050 revolutions the wire of the armature twisted bodily in the direction of rotation. Upon taking the armature out, we found that of the little fiber-teeth, and in a part of the wires, three rows of these little

fiber-teeth had been torn off and twisted, the Brass-wire bands not being sufficient to retain them in place. We found also at the fully end of the armature opposite, had been, in the under layers, carbonized. It was not thought that the wires were of sufficient sectional area for 500 lights, and the finding of the wires carbonized underneath, was a surprise, as up to the end of the test, the machine gave no evidence whatever of the trouble beneath. I believe the machine had been heavily loaded in America, and when we received the insulation was already partially carbonized. Upon this theory, we have had the armature entirely re-wound, and have put in larger and stronger fiber-plies, and have made the Brass-bands greater in number, each a little broader, and soldered all the way round. The machine is now almost ready for a new test, and we shall try it, and determine its maximum commercial capacity. Had we received full

(1883)

WE can send models of the lamps of Siemens and Halske for Sewing Machine

75 pct of your fee etc. less an agent

particulars and plans of the two machines sent, it would have saved a very great deal of inconvenience and delay. The delay in sending the models of smaller types of machines, has also put us back considerably, as we cannot secure them from Paris, on account of our arrangement with Siemens and Halske, and this firm has been quite suspicious that we should make use of their machines. Please see that full particulars, plans &c are sent, of all machines heretofore sent, or yet to be sent. Please also inform us if H. Machine had not been subjected to severe test in America before being sent here, and what was the maximum number of lamps it was tested with. Please inform us what you are making in the way of Motors and whether you are applying them in your Central Station in New York; and what power.

Lamps. We are now arranging for the establishment of a large Lamp-factory here. And in connection with the subject of lamps, I will say,

— as I said in a recent letter to Mr Upton — that you people in America do not understand the lamp question here in Germany. Were it not for several reasons we should buy our lamps from you or the French Co's, but the objections are these. First, the German Patent Law demands that, at least the greater portion of a Patented article, should be manufactured in the country. Secondly, the sentiment in Germany is perhaps stronger than in any other country on the subject of employing native labour in such manufactures. Thirdly, Siemens and Halske have at present a small Lamp-factory, and perhaps in a few years, when our agreement with them terminates, they will be in the possession of a large and well organized factory, while our Company would be dependant on other countries. This important consideration, and possibly the consideration of ultimate profit, have caused us to decide upon going to the trouble and expense of putting



(1883)

3.

up a factory. I agree with Mr Batchelor who, in a recent letter says that it would be very advisable to secure some of the Apparatus from America, such, for instance, as Mercurial pump; But of these matters you will have heard somewhat already, and will soon hear considerably more.

We have sent an order for 30,000 lamps, the first installment of which arrived in our store-house yesterday, ~~Nov 18th~~. We trust great care will be taken in the packing of the different Volts separate, as this has given us considerable trouble with the French lamps. Is it not possible to manufacture a 10 candle lamp at a lower figure? as it is a better unit of light, and is much less trouble some than the B lamp, whose greatest virtue lies in its economy, although the short carbons look very pretty when grouped in large chandeliers. We are glad to hear through Mr Weston's letter of the success of the Town plant and three wire system, and we should

NO -

be very pleased if you would send us any information relative to this class of work, with estimates which you have made of costs in putting up ~~the~~ ~~same~~. I stated in a letter some time ago, that the Company will be pleased to accept any expenses incurred in the preparation of copies, estimates, or other work of this kind. I saw in a paper recently, that you were now engaged in fitting up the second portion of the down town Central Station, and that you intended arranging with the three wire system. Does this relate only to the new portion of the work, or shall you gradually reorganize the district which is already laid down? Mr Rathbone requests me to say that we have so been harassed by delay in receipt of models & because of constant changes being made in the types that our Competitors Messrs Halden & Shuckert are doing the business we should be doing and he adds further that

We are now forced to look  
to Dr. Hopkinson's who is  
making slow speed and  
Compound machines etc.

Mr. Rathenau also wishes me  
to say we are still over  
gloating with the auction  
lets about concessions in  
Berlin for laying mid under-  
ground and with very  
satisfactory results. We  
have just finished the  
lighting of two handsome  
Cops in Berlin & have to-  
day received an order for  
a third (all with gas con-  
quies) in a few weeks  
we shall have quite a  
number of installations  
in operation here and  
I will try at an early date  
to send you a synopsis

of installations already com-  
pleted by us in the German  
Empire. I will try & send  
Major Eaton some details -  
also soon.

With very sincere  
regards I remain,

Yours Truly,

H. J. Hammer

I plan to Hammer how  
we do our big so as not to  
get stuck on machines - The H  
machine was tested with heavy  
load - also understanding that  
the machines are tested with  
400 amperes of course if  
you put on 500 lamps of .92  
ampere it would strain the  
machine it should have been  
tested with .75 - ampere lamps  
one later H. Washburn was working  
with larger wires (a few lamps  
were in a job in the middle of the installation)

(1883)

# SOCIÉTÉ ÉLECTRIQUE EDISON

Société anonyme au Capital de UN MILLION de Francs

PARIS. — 33, Avenue de l'Opéra. — PARIS

## ÉCLAIRAGE

DE

VILLES, RUES, ÉDIFICES PUBLICS ET PARTICULIERS

Châteaux, Magasins.

THÉÂTRES, USINES, MUSÉES, HOPITAUX, BATEAUX A VAPEUR, CAFÉS, ETC.

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LE VICOMTE SÉRURIER,

*des  
Machines  
à vapeur*

4

## NOTE SUR L'ÉCLAIRAGE PAR LA LUMIÈRE EDISON

### Qualités de la Lumière.

La lumière Edison est déjà employée en Amérique et en Europe dans un grand nombre d'établissements industriels, usines, magasins, banques, journaux, gares de chemins de fer, cafés, salles de spectacle, salles de concert, etc. A New-York, les maisons de tout un vaste quartier sont éclairées jour et nuit par 15,000 lampes à la satisfaction générale; ce n'est que le commencement d'une exploitation régulière qui s'étendra à un périmètre considérable. En Angleterre, en Allemagne, en Russie, en Autriche, en Belgique, en Italie, l'éclairage électrique prend chaque jour une nouvelle extension; il se forme des Compagnies puissantes pour l'exploitation du système Edison.

La nouvelle lumière est en effet destinée à se substituer de plus en plus aux anciens procédés d'éclairage, au gaz, à l'huile, au pétrole, dans les usines, fabriques, manufactures, ateliers, imprimeries, magasins, salles de réunions, etc., dans les châteaux, villas, hôtels, maisons particulières, dans les petites villes, les bourgs, les gros villages, partout, en un mot, où l'on peut disposer, sur place ou à proximité, de la force motrice convenable.

L'avantage sur tous les autres systèmes d'éclairage est évident. La lumière Edison est fixe et ne vacille pas au moindre courant d'air; elle est d'un ton doré agréable et d'un éclat doux qui ne fatigue pas la vue; elle n'élève pas la température de façon à rendre, pendant l'été, certains locaux inhabitables; elle ne vicia pas l'atmosphère, ne dégage ni fumée ni gaz sulfurés détruisant les peintures et les tentures des appartements; elle est indépendante des variations atmosphériques et ne perd pas en pouvoir éclairant avec l'altitude.

Produite en vase clos, brûlant dans l'eau comme dans l'air, au milieu de la ouate, de la paille et des matières les plus inflammables, elle ne laisse pas, comme le gaz, sous la menace perpétuelle de l'incendie, de l'explosion, ou de l'asphyxie. On peut affirmer que c'est la lumière qui offre à la fois la sécurité la plus absolue et les conditions hygiéniques les meilleures; elle est sans rivale sous ce double rapport et ne peut être comparée à aucun autre mode d'éclairage.

La lumière Edison présente également des avantages incontestables sur la lumière électrique par arc; elle ne répand pas autour d'elle ces teintes blafardes et violacées propres à l'arc voltaïque; elle ne scintille pas et ne varie pas continuellement dans son éclat; elle ne laisse pas tomber sur les par-

quets des parcelles de charbons enflammés; elle brûle silencieusement, sans qu'on ait à s'en occuper pendant de longs mois, tandis que chaque jour il faut remettre des baguettes de charbon dans les lampes à arc; elle ne nécessite aucun mécanisme susceptible de dérangement comme ceux des régulateurs à arc. Enfin sa divisibilité poussée à la limite lui permet de remplacer non seulement les plus petits becs de gaz, mais les lampes à huile, les bougies, etc., ce qu'il est absolument impossible d'obtenir avec les régulateurs, puisque le plus petit foyer par arc a encore un pouvoir éclairant d'au moins 30 à 40 becs Carcel.

Il est vrai qu'en apparence au moins l'unité de lumière coûte plus cher dans le système par incandescence, mais comme la lumière peut être beaucoup mieux répartie et distribuée, puisqu'on la divise autant qu'on veut, l'éclairage, qu'il ne faut pas confondre avec la lumière, revient, en définitive, à un prix moins élevé.

#### Prix de Revient.

L'éclairage au gaz étant le plus répandu et le plus économique, c'est avec le gaz qu'il est surtout intéressant de comparer la lumière Edison. On va voir que l'éclairage Edison permet de réaliser encore des économies sur l'éclairage au gaz.

Le gaz coûte généralement en France 0 fr. 30 le mètre cube; la consommation théorique est de 105 litres par Carcel et par heure; ce qui correspond à une dépense par Carcel et par heure de 0 fr., 0315.

En fait, cette dépense est assez notablement augmentée; elle atteint quatre centimes et quelquefois un peu davantage, soit par suite de l'emploi de becs autres que le type normal à double courant d'air, soit par un défaut de qualité du gaz ou de réglage des robinets et de la pression, soit parce qu'il faut augmenter le débit quand on s'élève à des altitudes de plus en plus grandes.

Le prix de la lumière Edison varie de son côté selon les conditions d'établissement de la force motrice. Dans les usines déjà pourvues de machines à vapeur, où il est facile d'emprunter de la force au moteur, sans installations supplémentaires, le prix est naturellement réduit; il varie dans les limites suivantes:

De 17 lampes à 150 lampes *A* fournissant chacune une lumière équivalente à 1 Carcel, 72, de 2 centimes 34 à 1 centime 74, par lampe et par heure.

De 150 à 500 lampes *A* de 1 centime 74 à 1 centime 50, par lampe et par heure.

Ces prix, correspondent par Carcel et par heure à 1 centime 36; 1 centime 01; 0 centime 85.

On n'a pas compris dans ces chiffres l'amortissement du matériel électrique.

Avec l'amortissement, ils s'élèveraient respectivement à 3 centimes 53 ; 2 centimes 46 ; 1 centime 90 par lampe A et par heure.

Soit par Carcel et par heure à 2 centimes 05 ; 1 centime 42 ; 1 centime 10. Ces prix sont inférieurs à ceux du gaz.

Si l'Établissement à éclairer ne possède pas de moteur et qu'il faille nécessairement fournir la force, l'amortissement de ce nouveau matériel grèvera les prix d'une charge supplémentaire. Ces prix pourront monter dans ce cas aux chiffres suivants :

5 centimes 5 pour une installation de 150 lampes A.  
3 — 62 — — — 500 —

Ce qui ne correspond encore respectivement qu'à 3 centimes 19, 2 centimes 10, par Carcel et par heure.

#### Prix du Matériel Électrique.

Le prix du matériel électrique dans les diverses installations peut se chiffrer approximativement comme il suit :

17 Lampes A . . . . .	1,940 francs.
60 — . . . . .	5,650 —
150 — . . . . .	10,750 —
250 — . . . . .	15,450 —
500 — . . . . .	30,900 —

Ces prix ne comprennent pas, bien entendu, l'appareillage variable à l'infini.

Le prix des lampes n'y figure pas non plus, par cette raison que leur usure entre dans l'estimation du coût horaire de la lumière.

On peut toujours remplacer à volonté une lampe A, de 1 Carcel 72, par deux lampes B de 0 Carcel 86. Mais il en résulte un supplément de dépense d'installation d'environ 12 fr. 50 par nouvelle lampe ajoutée.

#### Force Motrice.

On peut admettre que dans toutes les installations 1 cheval vapeur transmis à la machine dynamo-électrique actionne 8 lampes A de 16 bougies ou 16 lampes B de 8 bougies.

Adresser les demandes de renseignements et de devis à la SOCIÉTÉ ÉLECTRIQUE EDISON, 33, Avenue de l'Opéra, Paris.



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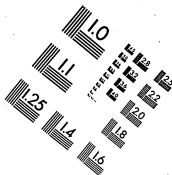
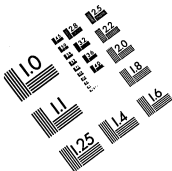
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